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OM protein - protein search, using sw model

Run on: March 11, 2005, 12:36:12 ; Search time 21.7609 Seconds
(without alignments)
1169.775 Million cell updates/sec

Title: US-09-597-840-5
Perfect score: 1697
Sequence: 1 MOSLSLSSSSLSQTPAMALV.....QIATLVLSTLQCTRNQAAA 341

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCtus.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfilest.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1697	100.0	341	1	US-08-062-024B-5
2	1697	100.0	341	1	US-08-891-254-5
3	1697	100.0	341	2	US-08-756-407-5
4	1697	100.0	341	2	US-08-819-539-5
5	1697	100.0	341	2	US-09-030-270A-5
6	1697	100.0	341	3	US-08-984-207-5
7	1697	100.0	341	3	US-09-013-587-5
8	1697	100.0	341	4	US-09-086-118-25
9	1697	100.0	341	4	US-09-431-614-11
10	1697	100.0	341	5	PCT-US94-05014-5
11	1697	100.0	341	5	PCT-US96-08819-5
12	138.5	8.2	338	1	US-08-891-254-1
13	138.5	8.2	338	2	US-08-484-358-2
14	138.5	8.2	338	2	US-08-819-539-1
15	138.5	8.2	338	2	US-09-013-587-1
16	138.5	8.2	338	3	US-09-118-959-2
17	138.5	8.2	338	3	US-08-984-207-1
18	138.5	8.2	338	3	US-09-013-587-1
19	138.5	8.2	338	4	US-09-086-118-21
20	138.5	8.2	338	4	US-09-431-614-1
21	138.5	8.2	338	5	PCT-US96-08819-1
22	127.5	7.5	344	1	US-08-891-254-7
23	127.5	7.5	344	1	US-08-819-539-7
24	127.5	7.5	344	2	US-09-030-270A-7
25	127.5	7.5	344	3	US-08-984-207-7
26	127.5	7.5	344	3	US-09-013-587-7
27	127.5	7.5	344	4	US-09-086-118-27

28	127.5	7.5	344	4	US-09-431-614-15	Sequence 15, Appl
29	127.5	7.5	344	5	PCT-US96-08819-7	Sequence 7, Appl
30	124.5	7.3	1036	2	US-08-543-681A-7736	Sequence 7736, Ap
31	121.5	7.2	403	2	US-08-200-724A-2	Sequence 2, Appl
32	121.5	7.2	403	2	US-09-030-270A-3	Sequence 3, Appl
33	121.5	7.2	403	3	US-08-851-376A-2	Sequence 2, Appl
34	121.5	7.2	403	3	US-08-984-207-3	Sequence 3, Appl
35	121.5	7.2	403	3	US-09-013-587-3	Sequence 3, Appl
36	121.5	7.2	403	4	US-09-086-118-23	Sequence 23, Appl
37	121.5	7.2	403	4	US-09-431-614-3	Sequence 3, Appl
38	120.5	7.1	1034	4	US-09-252-991A-26658	Sequence 26658, A
39	119.5	7.0	2763	3	US-08-496-944-2	Sequence 2, Appl
40	118	7.0	514	4	US-09-252-991A-19394	Sequence 19394, A
41	117	6.9	385	5	PCT-US93-06743-2	Sequence 2, Appl
42	116	6.8	385	1	US-08-891-254-3	Sequence 3, Appl
43	116	6.8	385	2	US-08-819-539-3	Sequence 3, Appl
44	116	6.8	385	5	PCT-US96-08819-3	Sequence 3, Appl
45	116	6.8	790	4	US-09-328-352-4283	Sequence 4283, Ap

ALIGNMENTS

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RESULT 1
US-08-062-024B-5
Sequence 5, Application US/08062024B
Patent No. 5708139
GENERAL INFORMATION:
APPLICANT: Alan Collmer and Sheng-Yang He
TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESSES:
ADDRESSER: Yanwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft word 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/062,024B
FILING DATE: May 17th 1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yanwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: CRF D-1425
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 341 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-062-024B-5
Query Match 100.0%; Score 1697; DB 1; Length 341;
Best Local Similarity 100.0%; Pred. No. 2.2e+150;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MOSLSLSSSSLSQTPAMALVVRPEAFITGSSKALQEVVVKLABEILRNQGLDSSPLG 60
DB 1 MOSLSLSSSSLSQTPAMALVVRPEAFITGSSKALQEVVVKLABEILRNQGLDSSPLG 60
QY 61 KILAKSMAADKAGGAGIEDVIALDKLIIHEKLGDNFGASADSGTGOQDLMTOVLNGLA 120
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Db 61 KLLAKSMAADGKAGGIEEDVIAALDKLIHEKLGDNFGASADSAGTGOQDMLMTQVNLGLA 120
QY 121 KSMJDDLITKODGTSFSEDDMPMLNKIAQFMDNDPAQFPKPSGSGVWNLKEDNPLDGD 180
Db 121 KSMJDDLITKODGTSFSEDDMPMLNKIAQFMDNDPAQFPKPSGSGVWNLKEDNPLDGD 180
QY 181 ETAFRSLDIIIGQOLNQOSDAGSLAGTGGGIGTSSFSNNSVWMDPLIDANTGPBDS 240
Db 181 ETAFRSLDIIIGQOLNQOSDAGSLAGTGGGIGTSSFSNNSVWMDPLIDANTGPBDS 240
QY 241 GNTREAGOLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSQSQADLDQLLGLL 300
Db 241 GNTREAGOLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSQSQADLDQLLGLL 300
QY 301 GLEATLKADAGOTGTPVQSSAAQIATLLVSTLLQSTRNOAAA 341
Db 301 GLEATLKADAGOTGTPVQSSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 2

US-08-891-254-5
; Sequence 5, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-891-254-5

Query Match 100.0%; Score 1697; DB 1; Length 341;
Best Local Similarity 100.0%; Pred. No. 2.2e-150;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLINSNSSLQTPAMALVLRPEAETGTSSTSKALQGVVVKLAELMRNGOLDSSPLG 60
Db 1 MOSLINSNSSLQTPAMALVLRPEAETGTSSTSKALQGVVVKLAELMRNGOLDSSPLG 60
QY 61 KLLAKSMAADGKAGGIEEDVIAALDKLIHEKLGDNFGASADSAGTGOQDMLMTQVNLGLA 120

Db 61 KLLAKSMAADGKAGGIEEDVIAALDKLIHEKLGDNFGASADSAGTGOQDMLMTQVNLGLA 120
QY 121 KSMJDDLITKODGTSFSEDDMPMLNKIAQFMDNDPAQFPKPSGSGVWNLKEDNPLDGD 180
Db 121 KSMJDDLITKODGTSFSEDDMPMLNKIAQFMDNDPAQFPKPSGSGVWNLKEDNPLDGD 180
QY 181 ETAFRSLDIIIGQOLNQOSDAGSLAGTGGGIGTSSFSNNSVWMDPLIDANTGPBDS 240
Db 181 ETAFRSLDIIIGQOLNQOSDAGSLAGTGGGIGTSSFSNNSVWMDPLIDANTGPBDS 240
QY 241 GNTREAGOLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSQSQADLDQLLGLL 300
Db 241 GNTREAGOLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSQSQADLDQLLGLL 300
QY 301 GLEATLKADAGOTGTPVQSSAAQIATLLVSTLLQSTRNOAAA 341
Db 301 GLEATLKADAGOTGTPVQSSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 3

US-08-756-407-5
; Sequence 5, Application US/08756407
; Patent No. 5858786
; GENERAL INFORMATION:
; APPLICANT: Alan Collier and Sheng-Yang He
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yawak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756,407
; FILING DATE: 27-NOV-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 062,024
; FILING DATE: 17-MAY-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yawak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1425
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-756-407-5

Query Match 100.0%; Score 1697; DB 2; Length 341;
Best Local Similarity 100.0%; Pred. No. 2.2e-150;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 KLLAKSMAADGKAGGIEEDVIAALDKLIHEKLGDNFGASADSAGTGOQDMLMTQVNLGLA 120

Db 61 KLLAKSWAADKAGGAGIEDVIAALDKLIHEKLDGNFGASADASAGTGGQDMLMTQVLANGLA 120
Qy 121 KSMIDLLITKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSVNLEKEDNPLDGD 180
Db 121 KSMIDLLITKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSVNLEKEDNPLDGD 180
Qy 181 ETAAFRSALDIIGQQLNQSDAGSLAGTGGLGTPSPFSFNSSVWMDPLIDANTGPDS 240
Db 181 ETAAFRSALDIIGQQLNQSDAGSLAGTGGLGTPSPFSFNSSVWMDPLIDANTGPDS 240
Qy 241 GNTREGAGOLIGELIDRGLQSVLAGGIGTPVNTPQTGTSANGQSADQLDQLLGILLK 300
Db 241 GNTREGAGOLIGELIDRGLQSVLAGGIGTPVNTPQTGTSANGQSADQLDQLLGILLK 300
Qy 301 GLEATLKADAGCTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341
Db 301 GLEATLKADAGCTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 4

US-08-819-539-5
; Sequence 5, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance in Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-5

Query Match 100.0%; Score 1697; DB 2; Length 341;

Best Local Similarity 100.0%; Pred. No. 2,2e-150;

Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MOSISLSSSLQTPAMALVVRPEAETTGTSSTSKALQEVVVVKLAELIMRNGQLDSSPLG 60
Db 1 MOSISLSSSLQTPAMALVVRPEAETTGTSSTSKALQEVVVVKLAELIMRNGQLDSSPLG 60
Qy 61 KLLAKSWAADKAGGAGIEDVIAALDKLIHEKLDGNFGASADASAGTGGQDMLMTQVLANGLA 120

Db 61 KLLAKSWAADKAGGAGIEDVIAALDKLIHEKLDGNFGASADASAGTGGQDMLMTQVLANGLA 120
Qy 121 KSMIDLLITKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSVNLEKEDNPLDGD 180
Db 121 KSMIDLLITKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSVNLEKEDNPLDGD 180
Qy 181 ETAAFRSALDIIGQQLNQSDAGSLAGTGGLGTPSPFSFNSSVWMDPLIDANTGPDS 240
Db 181 ETAAFRSALDIIGQQLNQSDAGSLAGTGGLGTPSPFSFNSSVWMDPLIDANTGPDS 240
Qy 241 GNTREGAGOLIGELIDRGLQSVLAGGIGTPVNTPQTGTSANGQSADQLDQLLGILLK 300
Db 241 GNTREGAGOLIGELIDRGLQSVLAGGIGTPVNTPQTGTSANGQSADQLDQLLGILLK 300
Qy 301 GLEATLKADAGCTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341
Db 301 GLEATLKADAGCTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 5

US-09-030-270A-5
; Sequence 5, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/15221
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-030-270A-5

Query Match 100.0%; Score 1697; DB 2; Length 341;

Best Local Similarity 100.0%; Pred. No. 2,2e-150;

Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MOSISLSSSLQTPAMALVVRPEAETTGTSSTSKALQEVVVVKLAELIMRNGQLDSSPLG 60
Db 1 MOSISLSSSLQTPAMALVVRPEAETTGTSSTSKALQEVVVVKLAELIMRNGQLDSSPLG 60

QY 61 KLAQSWAADKAGKGGIEDVIAALDKLIEHKLDNFGASADSGTGQODLMTQVNLGLA 120
DB 61 KLAQSWAADKAGKGGIEDVIAALDKLIEHKLDNFGASADSGTGQODLMTQVNLGLA 120
QY 121 KSMIDLTLTKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWVNEIKEDNPLDGD 180
DB 121 KSMIDLTLTKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWVNEIKEDNPLDGD 180
QY 181 ETAAFRSALDIIGQQLGNQSDAGSLAGTGGGLGTPTSSFSNNSSVWGDPLIDANTGPGDS 240
DB 181 ETAAFRSALDIIGQQLGNQSDAGSLAGTGGGLGTPTSSFSNNSSVWGDPLIDANTGPGDS 240
QY 241 GNRGEGGQILIGELIDRGLOSVLAGGGLGTPVNTPOTGTSANGQSAQODLDLGLLGLK 300
DB 241 GNRGEGGQILIGELIDRGLOSVLAGGGLGTPVNTPOTGTSANGQSAQODLDLGLLGLK 300
QY 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQGTNRQAAA 341
DB 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQGTNRQAAA 341

RESULT 6
US-08-984-207-5
Sequence 5, Application US/08984207
Patent No. 6235974

GENERAL INFORMATION:
APPLICANT: Qiu, Dwen
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: P.O. Box 1051, Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/984,207
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,230
FILING DATE: 05-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1201
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 341 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-984-207-5

Query Match 100.0%; Score 1697; DB 3; Length 341;
Best Local Similarity 100.0%; Pred. No. 2,2e-150; Indels 0; Gaps 0;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MOSLSLNSSSLQTPAMALVLRPEAETTGSTSSKALQEVVVKLAELMRNQDLDSSPLG 60
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DB 1 MOSLSLNSSSLQTPAMALVLRPEAETTGSTSSKALQEVVVKLAELMRNQDLDSSPLG 60
QY 61 KLAQSWAADKAGKGGIEDVIAALDKLIEHKLDNFGASADSGTGQODLMTQVNLGLA 120
DB 61 KLAQSWAADKAGKGGIEDVIAALDKLIEHKLDNFGASADSGTGQODLMTQVNLGLA 120
QY 121 KSMIDLTLTKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWVNEIKEDNPLDGD 180
DB 121 KSMIDLTLTKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWVNEIKEDNPLDGD 180
QY 181 ETAAFRSALDIIGQQLGNQSDAGSLAGTGGGLGTPTSSFSNNSSVWGDPLIDANTGPGDS 240
DB 181 ETAAFRSALDIIGQQLGNQSDAGSLAGTGGGLGTPTSSFSNNSSVWGDPLIDANTGPGDS 240
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DB 241 GNRGEGGQILIGELIDRGLOSVLAGGGLGTPVNTPOTGTSANGQSAQODLDLGLLGLK 300
QY 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQGTNRQAAA 341
DB 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQGTNRQAAA 341

RESULT 7
US-09-013-587-5
Sequence 5, Application US/09013587
Patent No. 6277814

GENERAL INFORMATION:
APPLICANT: Qiu, Dwen
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/013,587
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/036,048
FILING DATE: 27-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1501
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 341 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-013-587-5

Query Match 100.0%; Score 1697; DB 3; Length 341;
Best Local Similarity 100.0%; Pred. No. 2,2e-150; Indels 0; Gaps 0;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MOSLSLNSSSLQTPAMALVLRPEAETTGSTSSKALQEVVVKLAELMRNQDLDSSPLG 60
|||||

|||||
Db 1 MOSLINSSTLQTPAMALVIVRPEAFTTGSTSSKALQEVVVKLABELMRNQLDSSPLG 60
Qy 61 KILAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADASAGTGOQDLMTOVLNGLA 120
Db 61 KILAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADASAGTGOQDLMTOVLNGLA 120
Qy 121 KSMIDLLTTKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSWVNEKEDNPLDGD 180
Db 121 KSMIDLLTTKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSWVNEKEDNPLDGD 180
Qy 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGGLGTSPSSFSNNSVMDPLIDANTGPDS 240
Db 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGGLGTSPSSFSNNSVMDPLIDANTGPDS 240
Qy 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSADLDQLLGGILLK 300
Db 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSADLDQLLGGILLK 300
Qy 301 GLEATLKDAGQGTGDVQSSAAQIATLLVSTLLQSTRNOAAA 341
Db 301 GLEATLKDAGQGTGDVQSSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 8

US-09-086-118-25

Sequence 25, Application US/09086118

Patent No. 6583107

GENERAL INFORMATION:

APPLICANT: Laby, Ronald J.

APPLICANT: Beer, Steven V.

APPLICANT: Wei, Zhong-Min

TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES

TITLE OF INVENTION: THEREOF

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/086,118

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/048,109

FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/1301

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 25:

SEQUENCE CHARACTERISTICS:

LENGTH: 341 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-086-118-25

Query Match 100.0%; Score 1697; DB 4; Length 341;
Best Local Similarity 100.0%; Pred. No. 2,2e-150;

Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MOSLINSSTLQTPAMALVIVRPEAFTTGSTSSKALQEVVVKLABELMRNQLDSSPLG 60
Db 1 MOSLINSSTLQTPAMALVIVRPEAFTTGSTSSKALQEVVVKLABELMRNQLDSSPLG 60
Qy 61 KILAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADASAGTGOQDLMTOVLNGLA 120
Db 61 KILAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADASAGTGOQDLMTOVLNGLA 120
Qy 121 KSMIDLLTTKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSWVNEKEDNPLDGD 180
Db 121 KSMIDLLTTKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSWVNEKEDNPLDGD 180
Qy 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGGLGTSPSSFSNNSVMDPLIDANTGPDS 240
Db 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGGLGTSPSSFSNNSVMDPLIDANTGPDS 240
Qy 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSADLDQLLGGILLK 300
Db 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSADLDQLLGGILLK 300
Qy 301 GLEATLKDAGQGTGDVQSSAAQIATLLVSTLLQSTRNOAAA 341
Db 301 GLEATLKDAGQGTGDVQSSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 9

US-09-431-614-11

Sequence 11, Application US/09431614

Patent No. 6624139

GENERAL INFORMATION:

APPLICANT: Wei, Zhong-Min

APPLICANT: Schading, Richard L.

TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS

TITLE OF INVENTION: RESISTANCE

FILE REFERENCE: 21829/41 (EBC-003)

CURRENT APPLICATION NUMBER: US/09/431,614

CURRENT FILING DATE: 1999-11-02

EARLIER FILING DATE: 1998-11-05

NUMBER OF SEQ ID NOS: 18

SOFTWARE: Patent in Ver. 2.0

SEQ ID NO 11

LENGTH: 341

TYPE: PRT

ORGANISM: Pseudomonas syringae

US-09-431-614-11

Query Match 100.0%; Score 1697; DB 4; Length 341;
Best Local Similarity 100.0%; Pred. No. 2,2e-150;

Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MOSLINSSTLQTPAMALVIVRPEAFTTGSTSSKALQEVVVKLABELMRNQLDSSPLG 60
Db 1 MOSLINSSTLQTPAMALVIVRPEAFTTGSTSSKALQEVVVKLABELMRNQLDSSPLG 60
Qy 61 KILAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADASAGTGOQDLMTOVLNGLA 120
Db 61 KILAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADASAGTGOQDLMTOVLNGLA 120
Qy 121 KSMIDLLTTKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSWVNEKEDNPLDGD 180
Db 121 KSMIDLLTTKODGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGSWVNEKEDNPLDGD 180
Qy 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGGLGTSPSSFSNNSVMDPLIDANTGPDS 240
Db 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGGLGTSPSSFSNNSVMDPLIDANTGPDS 240
Qy 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSADLDQLLGGILLK 300
Db 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSADLDQLLGGILLK 300

Qy 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341
 Db 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 10

PCT-US94-05014-5
 ; Sequence 5, Application PC/TUS9405014
 ; GENERAL INFORMATION:
 ; APPLICANT: Cornell Research Foundation, Inc.
 ; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene
 ; NUMBER OF SEQUENCES: 6
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Yahwak & Associates
 ; STREET: 25 Skytop Drive
 ; CITY: Trumbull
 ; STATE: Connecticut
 ; COUNTRY: USA
 ; ZIP: 06611
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: floppy disk
 ; OPERATING SYSTEM: Macintosh
 ; SOFTWARE: Microsoft Word 4.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US94/05014
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: George M. Yahwak
 ; REGISTRATION NUMBER: 26,824
 ; REFERENCE/DOCKET NUMBER: CRF D-1425
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (203)268-1951
 ; TELEFAX: (203)268-1951
 ; INFORMATION FOR SEQ ID NO: 5:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 341 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; PCT-US94-05014-5

Query Match 100.0%; Score 1697; DB 5; Length 341;
 Best Local Similarity 100.0%; Pred. No. 2,2e-150;
 Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MOSLISNSSSIQTTPAMALVLRPEAETTGSTSSKALQEVVYKLAEBELMRNGQLDDSSPLG 60
 Db 1 MOSLISNSSSIQTTPAMALVLRPEAETTGSTSSKALQEVVYKLAEBELMRNGQLDDSSPLG 60
 Qy 61 KLLAKSMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSASGTGQODLMTQVNLGCLA 120
 Db 61 KLLAKSMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSASGTGQODLMTQVNLGCLA 120
 Qy 121 KSMULDLITKQDGGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWVNEIKEDNPLDGD 180
 Db 121 KSMULDLITKQDGGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWVNEIKEDNPLDGD 180
 Qy 181 ETTAFRSALDIITGQQLNQOSDAGSLAGTGGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
 Db 181 ETTAFRSALDIITGQQLNQOSDAGSLAGTGGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
 Qy 241 GNTRGEAGQLIGELIDRGLQSVLAGGIGTVPVNTPQTGTSANGQSADLDQLLGGLLK 300
 Db 241 GNTRGEAGQLIGELIDRGLQSVLAGGIGTVPVNTPQTGTSANGQSADLDQLLGGLLK 300
 Qy 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341
 Db 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 11

PCT-US96-08819-5
 ; Sequence 5, Application PC/TUS9608819
 ; GENERAL INFORMATION:
 ; APPLICANT: Cornell Research Foundation, Inc.
 ; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
 ; STREET: Clinton Square, P.O. Box 1051
 ; CITY: Rochester
 ; STATE: New York
 ; COUNTRY: U.S.A.
 ; ZIP: 14603
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: floppy disk
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US96/08819
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/475,775
 ; FILING DATE: 07-JUN-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Goldman, Michael L.
 ; REGISTRATION NUMBER: 30,727
 ; REFERENCE/DOCKET NUMBER: 19603/10051
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (716) 263-1304
 ; TELEFAX: (716) 263-1600
 ; INFORMATION FOR SEQ ID NO: 5:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 341 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; PCT-US96-08819-5

Query Match 100.0%; Score 1697; DB 5; Length 341;
 Best Local Similarity 100.0%; Pred. No. 2,2e-150;
 Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MOSLISNSSSIQTTPAMALVLRPEAETTGSTSSKALQEVVYKLAEBELMRNGQLDDSSPLG 60
 Db 1 MOSLISNSSSIQTTPAMALVLRPEAETTGSTSSKALQEVVYKLAEBELMRNGQLDDSSPLG 60
 Qy 61 KLLAKSMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSASGTGQODLMTQVNLGCLA 120
 Db 61 KLLAKSMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSASGTGQODLMTQVNLGCLA 120
 Qy 121 KSMULDLITKQDGGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWVNEIKEDNPLDGD 180
 Db 121 KSMULDLITKQDGGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWVNEIKEDNPLDGD 180
 Qy 181 ETTAFRSALDIITGQQLNQOSDAGSLAGTGGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
 Db 181 ETTAFRSALDIITGQQLNQOSDAGSLAGTGGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
 Qy 241 GNTRGEAGQLIGELIDRGLQSVLAGGIGTVPVNTPQTGTSANGQSADLDQLLGGLLK 300
 Db 241 GNTRGEAGQLIGELIDRGLQSVLAGGIGTVPVNTPQTGTSANGQSADLDQLLGGLLK 300
 Qy 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341
 Db 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 12

US-08-891-254-1
; Sequence 1, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance in Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-891-254-1

Query Match 8.2%; Score 138.5; DB 1; Length 338;
Best Local Similarity 24.5%; Pred. No. 0.00012;
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVTLAELRLNRNGQLDSSPLGKLLAKSMADGKA---GGGIEDVIALD 85
DB 108 KALDLDLGHDTVYKLTNQ---SNQLANS-----MLANSQMTQGMMAFGSGVNNALSSI- 158
QY 86 KLIEKLDNFSGASADSGTGQODLMTQVNLNGV-----AKSML 124
DB 159 -----LGNLGG---QSMGSGSPSLGAGLGLSGAGAFNQLGNATGMVGQNAALSL 209
QY 125 DDLITKODGGS--FSSDDMPMLNKIAQFMDNDPAQF-----PKPDGSGVYNE 170
DB 210 SNVSTHYDGNRRHFRVDEKEDRGMAKEIGQFMDQYBEIFGKPEYQKDGWSSPKTDDKSWAKA 269
QY 171 LK--EDNFFLDGDETAFRSALDIIGQQLGNQGSAG--SLAGTGGLGTSPSSFNNSSVMG 227
DB 270 LSKPDDGGMGASMDKFRQAMGMIKSAVADTGNTNLNLGAGG-----ASLGIDAAYVG 324

QY 228 DPLIDANTG 236
DB 325 DKIANMSLG 333

RESULT 13
US-08-484-358-2
; Sequence 2, Application US/08484358
; Patent No. 5850015

GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collier, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor
; TITLE OF INVENTION: From
; TITLE OF INVENTION: Ewinia Chrysanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,358
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-484-358-2

Query Match 8.2%; Score 138.5; DB 2; Length 338;
Best Local Similarity 24.5%; Pred. No. 0.00012;
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVTLAELRLNRNGQLDSSPLGKLLAKSMADGKA---GGGIEDVIALD 85
DB 108 KALDLDLGHDTVYKLTNQ---SNQLANS-----MLANSQMTQGMMAFGSGVNNALSSI- 158
QY 86 KLIEKLDNFSGASADSGTGQODLMTQVNLNGV-----AKSML 124
DB 159 -----LGNLGG---QSMGSGSPSLGAGLGLSGAGAFNQLGNATGMVGQNAALSL 209
QY 125 DDLITKODGGS--FSSDDMPMLNKIAQFMDNDPAQF-----PKPDGSGVYNE 170
DB 210 SNVSTHYDGNRRHFRVDEKEDRGMAKEIGQFMDQYBEIFGKPEYQKDGWSSPKTDDKSWAKA 269
QY 171 LK--EDNFFLDGDETAFRSALDIIGQQLGNQGSAG--SLAGTGGLGTSPSSFNNSSVMG 227
DB 270 LSKPDDGGMGASMDKFRQAMGMIKSAVADTGNTNLNLGAGG-----ASLGIDAAYVG 324

QY 228 DPLIDANTG 236
DB 325 DKIANMSLG 333

RESULT 14
US-08-819-539-1
; Sequence 1, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance in Plants

```

; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; ATTORNEY/AGENT INFORMATION:
; FILING DATE:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-1

Query Match      8.2%; Score 138.5; DB 2; Length 338;
Best Local Similarity 24.5%; Pred. No. 0.00012;
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVKLAELMRNGQLDSSPLGKLLAKSMADGKA---GGGIEDVIALD 85
DB 108 KALDLDLGHDTVTYKLTNQ---SNQLANS-----MLNMQMTQGMNNAFGSGVNNALSSI- 158
QY 86 KLIHEKLDNFGASADSASGTGQDDMTQVNLGL-----AKSML 124
DB 159 -----LGNGIG---QSMGSPSPSLGAGGIGLSGAGAFNQLGNALGMVGQNALSL 209
QY 125 DDLITKODGGS--FSEDDMPMLNKIAQFMDNDPAQF-----PKPSGGSVNE 170
DB 210 SNVSTHYDGNRRHVDKEDRGMAKEIQFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKA 269
QY 171 LK--EDNPLDGDETAFAFSALDIIGQQLGNQSDAG--SLAGTGGLGTGTPSSFSNNSVWG 227
DB 270 LSKPDDDGMTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGG-----ASLGIDAAVVG 324

QY 228 DPLIDANTG 236
DB 325 DKIANMSLG 333

RESULT 15
; US-09-030-270A-1
; Sequence 1, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
```

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; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-030-270A-1

Query Match      8.2%; Score 138.5; DB 2; Length 338;
Best Local Similarity 24.5%; Pred. No. 0.00012;
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVKLAELMRNGQLDSSPLGKLLAKSMADGKA---GGGIEDVIALD 85
DB 108 KALDLDLGHDTVTYKLTNQ---SNQLANS-----MLNMQMTQGMNNAFGSGVNNALSSI- 158
QY 86 KLIHEKLDNFGASADSASGTGQDDMTQVNLGL-----AKSML 124
DB 159 -----LGNGIG---QSMGSPSPSLGAGGIGLSGAGAFNQLGNALGMVGQNALSL 209
QY 125 DDLITKODGGS--FSEDDMPMLNKIAQFMDNDPAQF-----PKPSGGSVNE 170
DB 210 SNVSTHYDGNRRHVDKEDRGMAKEIQFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKA 269
QY 171 LK--EDNPLDGDETAFAFSALDIIGQQLGNQSDAG--SLAGTGGLGTGTPSSFSNNSVWG 227
DB 270 LSKPDDDGMTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGG-----ASLGIDAAVVG 324

QY 228 DPLIDANTG 236
DB 325 DKIANMSLG 333
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Search completed: March 11, 2005, 12:49:47
Job time : 22.7609 secs

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OM protein - protein search, using sw model

Run on: March 11, 2005, 12:45:48 ; Search time 63.8478 Seconds

(Without alignments)
1761.643 Million cell updates/sec

Title: US-09-597-840-5

Perfect score: 1697
Sequence: 1 MGSLSNSSLQTPAAALV.....QIATLVSTLQTRNAAA 341Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1396920 seqs, 32984858 residues

Total number of hits satisfying chosen parameters: 1396920

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

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2: /cgn2_6/ptodata/1/pubppaa/PCRT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/1/pubppaa/US06_NEW_PUB.pep:*

4: /cgn2_6/ptodata/1/pubppaa/US06_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubppaa/US07_NEW_PUB.pep:*

6: /cgn2_6/ptodata/1/pubppaa/PCRTUS_PUBCOMB.pep:*

7: /cgn2_6/ptodata/1/pubppaa/US08_NEW_PUB.pep:*

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20: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1697	100.0	341	9	US-09-086-118-25
2	1697	100.0	341	9	US-09-835-684-7
3	1697	100.0	341	9	US-09-880-371-7
4	1697	100.0	341	9	US-09-879-248-11
5	1697	100.0	341	9	US-09-770-693-5
6	1697	100.0	341	14	US-10-034-158-5
7	1697	100.0	341	14	US-10-010-390-7
8	1697	100.0	341	14	US-10-387-806-25
9	1697	100.0	341	15	US-10-441-736-11
10	1697	96.3	342	15	US-10-363-832-2
11	146	8.6	3286	15	US-10-282-122A-49697
12	138.5	8.2	338	9	US-09-086-118-21
13	138.5	8.2	338	9	US-09-835-684-1

14	138.5	8.2	338	9	US-09-880-371-1	Sequence 1, Appli
15	138.5	8.2	338	9	US-09-879-248-1	Sequence 1, Appli
16	138.5	8.2	338	9	US-09-770-693-1	Sequence 1, Appli
17	138.5	8.2	338	9	US-09-766-348-1	Sequence 1, Appli
18	138.5	8.2	338	14	US-10-034-158-1	Sequence 1, Appli
19	138.5	8.2	338	14	US-10-010-390-1	Sequence 1, Appli
20	138.5	8.2	338	14	US-10-387-806-21	Sequence 21, Appli
21	138.5	8.2	338	15	US-10-441-736-1	Sequence 1, Appli
22	128.5	7.6	1862	15	US-10-282-122A-49757	Sequence 49757, A
23	127.5	7.5	344	9	US-09-086-118-27	Sequence 27, Appli
24	127.5	7.5	344	9	US-09-835-684-11	Sequence 11, Appli
25	127.5	7.5	344	9	US-09-880-371-11	Sequence 15, Appli
26	127.5	7.5	344	9	US-09-879-248-15	Sequence 7, Appli
27	127.5	7.5	344	9	US-09-770-693-7	Sequence 7, Appli
28	127.5	7.5	344	9	US-09-766-348-7	Sequence 5, Appli
29	127.5	7.5	344	14	US-10-034-158-7	Sequence 7, Appli
30	127.5	7.5	344	14	US-10-010-390-11	Sequence 11, Appli
31	127.5	7.5	344	14	US-10-387-806-27	Sequence 27, Appli
32	127.5	7.5	344	15	US-10-441-736-15	Sequence 15, Appli
33	125.5	7.4	1819	15	US-10-282-122A-51538	Sequence 51538, A
34	125	7.4	993	15	US-10-282-122A-43875	Sequence 43875, A
35	123.5	7.3	1023	10	US-09-884-696-5	Sequence 5, Appli
36	121.5	7.2	403	9	US-09-086-118-23	Sequence 23, Appli
37	121.5	7.2	403	9	US-09-835-684-3	Sequence 3, Appli
38	121.5	7.2	403	9	US-09-880-371-3	Sequence 3, Appli
39	121.5	7.2	403	9	US-09-879-248-3	Sequence 3, Appli
40	121.5	7.2	403	9	US-09-770-693-3	Sequence 3, Appli
41	121.5	7.2	403	9	US-09-766-348-3	Sequence 3, Appli
42	121.5	7.2	403	14	US-10-034-158-3	Sequence 3, Appli
43	121.5	7.2	403	14	US-10-010-390-3	Sequence 3, Appli
44	121.5	7.2	403	14	US-10-387-806-23	Sequence 23, Appli
45	121.5	7.2	403	15	US-10-441-736-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-086-118-25
; Sequence 25, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Baby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Win
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENT ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 341 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-25

Query Match 100.0%; Score 1697; DB 9; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 181 ETAAFRSALDIIGQQLNQOSDAGSLAGTGGGIGTPTPSFSNNSVWMDPLIDANTGPGDS 240
QY 241 GNTREGAGQILIGELIDRGLQSVLAGGIGTPTVPTPOTGSANGGQSAQODLQLLGILLK 300
DB 241 GNTREGAGQILIGELIDRGLQSVLAGGIGTPTVPTPOTGSANGGQSAQODLQLLGILLK 300
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DB 301 GLEATLKDAQGTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 2
US-09-835-684-7
Sequence 7, Application US/09835684
Patent No. US20020019337A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Qiu, Dewen
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
FILE REFERENCE: 21829/71
CURRENT APPLICATION NUMBER: US/09/835, 684
CURRENT FILING DATE: 2001-04-16
PRIOR APPLICATION NUMBER: 60/198,359
PRIOR FILING DATE: 2000-04-19
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 7
LENGTH: 341
TYPE: PRT
ORGANISM: Pseudomonas syringae
US-09-835-684-7

Query Match 100.0%; Score 1697; DB 9; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 241 GNTREGAGQILIGELIDRGLQSVLAGGIGTPTVPTPOTGSANGGQSAQODLQLLGILLK 300
DB 241 GNTREGAGQILIGELIDRGLQSVLAGGIGTPTVPTPOTGSANGGQSAQODLQLLGILLK 300
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RESULT 3
US-09-880-371-7
Sequence 7, Application US/09880371
Patent No. US20020059658A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: DeRoche, Jay
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
FILE REFERENCE: 21829/91
CURRENT APPLICATION NUMBER: US/09/880, 371
CURRENT FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: 60/211,585
PRIOR FILING DATE: 2000-06-15
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 7
LENGTH: 341
TYPE: PRT
ORGANISM: Pseudomonas syringae
US-09-880-371-7

Query Match 100.0%; Score 1697; DB 9; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
US-09-879-248-11

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; Sequence 11, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; FILE REFERENCE: THEREOF
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 11
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-879-248-11

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Query Match      100.0%; Score 1697; DB 9; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
Db 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
Qy 241 GNTREGAGQILIGELIDRGLQSVLAGGIGTPTVNTPTGTSGANGQSQADLDQLLGLLLK 300
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Db 301 GLEATLKDAQGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341

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RESULT 5
US-09-770-693-5
; Sequence 5, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: COMYTE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-770-693-5

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Query Match      100.0%; Score 1697; DB 9; Length 341;

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Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 KLAASMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSGTGOQDMLMTQVLANGLA 120
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Qy 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
Db 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
Qy 241 GNTREGAGQILIGELIDRGLQSVLAGGIGTPTVNTPTGTSGANGQSQADLDQLLGLLLK 300
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Db 301 GLEATLKDAQGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341

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RESULT 6
US-10-034-158-5
; Sequence 5, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/557,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-034-158-5

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Query Match      100.0%; Score 1697; DB 14; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 KLAASMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSGTGOQDMLMTQVLANGLA 120
Db 61 KLAASMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSGTGOQDMLMTQVLANGLA 120
Qy 121 KSMDDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPSGSVWNEIKEDNPLDGD 180
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Db 121 KSMDDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPSGSVWNEIKEDNPLDGD 180
Qy 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
Db 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGLTGPSSFSNNSVWMDPLIDANTGPGDS 240
Qy 241 GNTREGAGQILIGELIDRGLQSVLAGGIGTPTVNTPTGTSGANGQSQADLDQLLGLLLK 300

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Db      241 GNTGGEAGQILGELIDRGLSVLAGGGLGTPVNTPQTGTSANGQSADLDQLLGGLLK 300
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Qy      301 GLEATLKDACGTGTVVSSAAQIATLLVSTLLQSTRNOAAA 341
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Db      301 GLEATLKDACGTGTVVSSAAQIATLLVSTLLQSTRNOAAA 341

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RESULT 7

US-10-010-390-7

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; Sequence 7, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oyiedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010.390
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
; US-10-010-390-7

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Query Match      100.0%; Score 1697; DB 14; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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        |||
Qy      61 KLAASMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQDMLTQVLANGLA 120
        |||
Db      61 KLAASMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQDMLTQVLANGLA 120
        |||
Qy      121 KSMIDDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGWVNEKEDNFIIDG 180
        |||
Db      121 KSMIDDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGWVNEKEDNFIIDG 180
        |||
Qy      181 ETAAFRSALDIIGQOLGNQSDAGSLAGTGGGCTGTPSSFSNNSVWMDPLIDANTGPGDS 240
        |||
Db      181 ETAAFRSALDIIGQOLGNQSDAGSLAGTGGGCTGTPSSFSNNSVWMDPLIDANTGPGDS 240
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RESULT 8

US-10-387-806-25

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; Sequence 25, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Lady, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12

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; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
; US-10-387-806-25

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Query Match      100.0%; Score 1697; DB 14; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 MOSLISNSSSLQTPAMALVLRPEAETTGTSSTSKALQEVVYKLAELMRNGQLDDSSPLG 60
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Db      1 MOSLISNSSSLQTPAMALVLRPEAETTGTSSTSKALQEVVYKLAELMRNGQLDDSSPLG 60
        |||
Qy      61 KLAASMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQDMLTQVLANGLA 120
        |||
Db      61 KLAASMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQDMLTQVLANGLA 120
        |||
Qy      121 KSMIDDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGWVNEKEDNFIIDG 180
        |||
Db      121 KSMIDDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGWVNEKEDNFIIDG 180
        |||
Qy      181 ETAAFRSALDIIGQOLGNQSDAGSLAGTGGGCTGTPSSFSNNSVWMDPLIDANTGPGDS 240
        |||
Db      181 ETAAFRSALDIIGQOLGNQSDAGSLAGTGGGCTGTPSSFSNNSVWMDPLIDANTGPGDS 240
        |||
Qy      241 GNTGGEAGQILGELIDRGLSVLAGGGLGTPVNTPQTGTSANGQSADLDQLLGGLLK 300
        |||
Db      241 GNTGGEAGQILGELIDRGLSVLAGGGLGTPVNTPQTGTSANGQSADLDQLLGGLLK 300
        |||
Qy      301 GLEATLKDACGTGTVVSSAAQIATLLVSTLLQSTRNOAAA 341
        |||
Db      301 GLEATLKDACGTGTVVSSAAQIATLLVSTLLQSTRNOAAA 341
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RESULT 9

US-10-441-736-11

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; Sequence 11, Application US/10441736
; Publication No. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; FILE REFERENCE: 21829/203 (EBC-003)
; CURRENT APPLICATION NUMBER: US/10/441,736
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: 09/431,614
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
; US-10-441-736-11

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Query Match      100.0%; Score 1697; DB 15; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 MOSLISNSSSLQTPAMALVLRPEAETTGTSSTSKALQEVVYKLAELMRNGQLDDSSPLG 60
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Db      1 MOSLISNSSSLQTPAMALVLRPEAETTGTSSTSKALQEVVYKLAELMRNGQLDDSSPLG 60
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Query Match	Similarity	96.3%	Score 1633.5	DB 15	Length 342
Best Local	Similarity	96.5%	Pred. No. 1,2e-124		
Matches 330	Conservative	4	Mismatches 7	Indels 1	Gaps 11
Qy	1	MQSIINSSSSIQTPMAMLVLYRPEAKTTG-STSSKALDEYVYKLAEEIMRNGOLDSSPL	59		
Db	1	MQSIINSSSSIQTPMAMLVLYRPEAKTTGASISSPALDEYVYKLAEEIMRNGOLDSSPL	60		
Qy	60	GKLAKSMAADGKAGGIEDVYLAALDKIIEHYLGDNFGASADASAGTGOQDLMTOVLNGL	119		
Db	61	GKLAKSMAADGKAGGIEDVYLAALDKIIEHYLGDNFGASADAMNAGTGOQDLMTOVLNGL	120		
Qy	120	AKSMHLDLLLTQODGTSFSEDDMPMLNTKIAQFMDNPNQFPKPDGSGWVNEIKENFIDG	179		
Db	121	AKSMHLDLLLTQODGASFESEDDMPMLNTKIAQFMDNPNQFPKPDGSGWVNEIKENFIDG	180		
Qy	180	DETAFAFRSALDIIGQOLNQOOSDASLAGTGCGIGTSPSSFNSSNWSVMDPLIDANTGEGD	239		
Db	181	DETAFAFRSALDIIGQOLNQOOSGAGLAGTGCGIGTSPSSFNSSSVTDDPLIDANTGEGD	240		
Qy	240	SGNTRGEGGOLIGELIDRGLOSVLVAGGELGTPVNTPQGTSGANQGSQODLDLGGILL	299		
Db	241	SGNSGEGGOLIGELIDRGLOSVLVAGGELGTPVNTPQGTGAANGQSQODLDLGGILL	300		
Qy	300	KGLEATLMDAGQTGTDVQSSAAQIATLLVSTLLQSTRNQAAA	341		
Db	301	KGLEATLMDAGQTATDVQSSAAQIATLLVSTLLQSTRNQAAA	342		

Query Match	8.6%;	Score 146;	DB 15;	Length 3286;
Best Local Similarity	25.0%;	Pred. No. 0.03;		
Matches	109;	Conservative	43;	Mismatches 138; Indels 146; Gaps 20;

Qy	2	QSLSINSSSIOTPMALVLRPEAEFTGTSISKLAQEVVVKLAELMRNGOLDSS	57
Db	872	QSVINDDSGISQIHAGSGTLASAGTISNTG-----NVYNGALDVSGTAVS	918
Qy	58	PLGLTLKK-----SMALDGKAGGIEVDIALDKLIRHEKLDGNFCASADS	102
Db	919	NGSLSLAKGDAYTPAQSLDINHAGSVVAGNIGANIAGALANQSGTLGATTTVSSGSSVDN	978
Qy	103	ASGTGQODLMTQVINGLAKSMLDLLTKODGTGTFSEDDMEMLKKIAQFMDNPAQFEPK	162
Db	979	SNGTIEG-----NTLALSSSGMLSNR--GG-----RLRQY-----	1006
Qy	163	DSGWNVELKEDNFLD--GDETAIFRSALDIIQQQLNQSGSDAGSL--AGTG-----	210
Db	1007	--GSADQTLASAGALDNTGTLTANMANLTVTSGSITN---DASIQHAGTGLTNVTPG	1061
Qy	211	-----GGLGTPTSPFSFNNS-----SVMGDPLIDANTGPGDSGNT--RGEAG-----	248
Db	1062	ALSDVAGQIATNGALLIARSASLDNSNGTVASQSGSAQVDANTSLNRRGGLTVGKAGLTATT	1122
Qy	249	-----QLIGELIDRGLOSVLAGGSL-----GTPVNTPQTGTSANGQSAQDDLDQLGILL	299

Db 1122 OGAFDNTQGSVOTDGNLSVAGALSNSTGTSIVNGASGNAATATVBSASIDNTSGKLTN 1181
Qy 300 KGEATLKDA-----GQGTDVQSS---AAQATLLVS----- 329
Db 1182 SSGGATTATATGTSAGTWGNGVDVTLGAQTLLTNASAFVAAVASLVTNRVNSG 1241
Qy 330 -TLQGT---NQAAA 341
Db 1242 GTTVCGTALNINOSGA 1257

RESULT 12
US-09-086-118-21
; Sequence 21, Application US/09066118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENT ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-086-118-21

Query Match 8.2%; Score 138.5; DB 9; Length 338;
Best Local Similarity 24.5%; Pred. No. 0.006;
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;
Qy 34 KALOEV-----VVKLAELMRNGQLDSSPLGKLLAKSMADGKA---GGGIEDVIALD 85
Db 108 KALDDLLGHDTVTYKLTNQ---SNOLANS-----MLNLSQMTQGNMNAFGSGVNNALSSI- 158
Qy 86 KLJHEKLGDNFGASADSAGTGGQDLMTQVINGL-----AKSML 124
Db 159 -----LGNGLG---QSMGFSQPSLGGAGLGGISGAGAFNQLGNALGCVGNALASAL 209
Qy 125 DDLITKDDGTS--FSDDMPMLNKIAQFMNDNPAQF-----PKPDGGSVNE 170
Db 210 SNVSTHVDGNRRHFEVDKEDRGMAKEIGQFMDOYPEIFGKPEYOKDGWSSPRTDXXWAKA 269

Qy 171 LK--EDNPLDGDDETAARSAIDITIGQOLGNQSDAG--SLAGTGGLGTPESSFNNSSVMG 227
Db 270 LSKPDDGKMTGASMDKFRQAMGMIKSAVADDTGNTNINLNGAGG-----ASLGIDAIVG 324
Qy 228 DPLIDANTG 236
Db 325 DKIANMSLG 333

RESULT 13
US-09-835-684-1
; Sequence 1, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
; US-09-835-684-1

Query Match 8.2%; Score 138.5; DB 9; Length 338;
Best Local Similarity 24.5%; Pred. No. 0.006;
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;
Qy 34 KALOEV-----VVKLAELMRNGQLDSSPLGKLLAKSMADGKA---GGGIEDVIALD 85
Db 108 KALDDLLGHDTVTYKLTNQ---SNOLANS-----MLNLSQMTQGNMNAFGSGVNNALSSI- 158
Qy 86 KLJHEKLGDNFGASADSAGTGGQDLMTQVINGL-----AKSML 124
Db 159 -----LGNGLG---QSMGFSQPSLGGAGLGGISGAGAFNQLGNALGCVGNALASAL 209
Qy 125 DDLITKDDGTS--FSDDMPMLNKIAQFMNDNPAQF-----PKPDGGSVNE 170
Db 210 SNVSTHVDGNRRHFEVDKEDRGMAKEIGQFMDOYPEIFGKPEYOKDGWSSPRTDXXWAKA 269
Qy 171 LK--EDNPLDGDDETAARSAIDITIGQOLGNQSDAG--SLAGTGGLGTPESSFNNSSVMG 227
Db 270 LSKPDDGKMTGASMDKFRQAMGMIKSAVADDTGNTNINLNGAGG-----ASLGIDAIVG 324
Qy 228 DPLIDANTG 236
Db 325 DKIANMSLG 333

RESULT 14
US-09-880-371-1
; Sequence 1, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRoche, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15

; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-880-371-1

Query Match 8.2%; Score 138.5; DB 9; Length 338;

Best Local Similarity 24.5%; Pred. No. 0.006; Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVLAEELMRNGQLDSSPLGKLIKSMADGKA---GGGIEDVIALD 85
DB 108 KALDDDLGHDTVTYKLTNQ---SNQLANS-----MLNLSQMTQGNMNAFGSGVNNALSSI- 158
QY 86 KLIEKLGDNFGASADSASGTGQODLMTQVLNGI-----AKSML 124
DB 159 -----LGNGIG---QSMISGFSQPSLGAGLQGLSGAGAFNQLGNALGMVGQNALSL 209
QY 125 DDLITKODGGS--FSEDDMPMLKIAQFMDNPAQF-----PKPDGSGWNE 170
DB 210 SNVSTHYDGNRRHFVDEKDEKMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKA 269
QY 171 LK--EDNPLDGDERTAFRSALDIIGQQLGNQSDAG--SLAGTGGGLGTPSSFSNNSSVMG 227
DB 270 LSKPDDDMGTGASMDKFRQAMGMIKSAVAGDTGNTNINLRGAGG---ASLGIDAAVVG 324
QY 228 DPLIDANTG 236
DB 325 DKIANMSLG 333

RESULT 15

US-09-879-248-1
; Sequence 1, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879, 248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212, 211
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-879-248-1

Query Match 8.2%; Score 138.5; DB 9; Length 338;

Best Local Similarity 24.5%; Pred. No. 0.006; Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVLAEELMRNGQLDSSPLGKLIKSMADGKA---GGGIEDVIALD 85
DB 108 KALDDDLGHDTVTYKLTNQ---SNQLANS-----MLNLSQMTQGNMNAFGSGVNNALSSI- 158
QY 86 KLIEKLGDNFGASADSASGTGQODLMTQVLNGI-----AKSML 124
DB 159 -----LGNGIG---QSMISGFSQPSLGAGLQGLSGAGAFNQLGNALGMVGQNALSL 209
QY 125 DDLITKODGGS--FSEDDMPMLKIAQFMDNPAQF-----PKPDGSGWNE 170
DB 210 SNVSTHYDGNRRHFVDEKDEKMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKA 269
QY 171 LK--EDNPLDGDERTAFRSALDIIGQQLGNQSDAG--SLAGTGGGLGTPSSFSNNSSVMG 227

DB 270 LSKPDDDMGTGASMDKFRQAMGMIKSAVAGDTGNTNINLRGAGG-----ASLGIDAAVVG 324
QY 228 DPLIDANTG 236
DB 325 DKIANMSLG 333

Search completed: March 11, 2005, 13:14:16
Job time : 64.8478 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 11, 2005, 12:36:12 ; Search time 25.7174 Seconds
(Without alignments)
1169.775 Million cell updates/sec

Title: US-09-597-840-3
Perfect score: 2079
Sequence: 1 MSANTSGTGAFTWISIGGA.....DAMAGDAINMALGKLGAA 403

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues
Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
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4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2079	100.0	403	2	US-08-200-724A-2
2	2079	100.0	403	2	US-09-030-270A-3
3	2079	100.0	403	3	US-08-851-376A-2
4	2079	100.0	403	3	US-08-984-207-3
5	2079	100.0	403	3	US-09-013-587-3
6	2079	100.0	403	4	US-09-086-118-23
7	2079	100.0	403	4	US-09-431-614-3
8	1928	92.7	385	1	US-08-891-254-3
9	1928	92.7	385	2	US-08-819-539-3
10	1928	92.7	385	5	PCT-US96-08819-3
11	1913	92.0	385	5	PCT-US93-06243-2
12	718.5	34.6	338	1	US-08-891-254-1
13	718.5	34.6	338	2	US-08-484-358-2
14	718.5	34.6	338	2	US-08-819-539-1
15	718.5	34.6	338	2	US-09-030-270A-1
16	718.5	34.6	338	3	US-09-118-959-2
17	718.5	34.6	338	3	US-08-984-207-1
18	718.5	34.6	338	3	US-09-013-587-1
19	718.5	34.6	338	4	US-09-086-118-21
20	718.5	34.6	338	4	US-09-431-614-1
21	718.5	34.6	338	5	PCT-US96-08819-1
22	211.5	10.2	318	4	US-09-060-756-727
23	211.5	10.2	318	4	US-09-670-314-727
24	211.5	10.2	651	3	US-08-556-978B-19
25	211.5	10.2	651	3	US-09-247-806-1
26	211.5	10.2	651	4	US-09-863-859-1
27	211.5	10.2	718	1	US-08-425-069-2

28	211.5	10.2	718	2	US-08-317-844B-2	Sequence 2, Appli
29	211.5	10.2	747	3	US-09-034-177-3	Sequence 3, Appli
30	206	9.9	604	3	US-08-356-978B-63	Sequence 63, Appli
31	204	9.8	528	4	US-09-490-291-8	Sequence 8, Appli
32	203.5	9.8	975	4	US-09-328-352-4764	Sequence 4764, Ap
33	199.5	9.6	334	5	US-09-060-756-728	Sequence 728, App
34	199.5	9.6	738	4	US-09-670-314-728	Sequence 728, App
35	198.5	9.5	738	4	US-08-864-028A-3	Sequence 3, Appli
36	198	9.5	606	3	US-09-247-806-6	Sequence 6, Appli
37	197.5	9.5	344	1	US-08-891-254-7	Sequence 7, Appli
38	197.5	9.5	344	2	US-08-819-539-7	Sequence 7, Appli
39	197.5	9.5	344	2	US-09-030-270A-7	Sequence 7, Appli
40	197.5	9.5	344	3	US-08-984-207-7	Sequence 7, Appli
41	197.5	9.5	344	3	US-09-013-587-7	Sequence 7, Appli
42	197.5	9.5	344	4	US-09-086-118-27	Sequence 27, Appli
43	197.5	9.5	344	4	US-09-431-614-15	Sequence 15, Appli
44	197.5	9.5	344	5	PCT-US96-08819-7	Sequence 7, Appli
45	197	9.5	606	3	US-08-556-978B-23	Sequence 23, Appli

ALIGNMENTS

RESULT 1
US-08-200-724A-2
Sequence 2, Application US/08200724A
Patent No. 5849868
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Bauer, David W.
APPLICANT: Beer, Steven V.
APPLICANT: Collier, Alan
APPLICANT: He, Sheng-Yang
APPLICANT: Laby, Ron J.
TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
TITLE OF INVENTION: IN PLANTS
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/200,724A
FILING DATE: 23-FEB-1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10030
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-200-724A-2
Query Match 100.0%; Score 2079; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-174;
Matches 403; Conservative 0; Mismatches 0; Gaps 0;

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QY 1 MSNTSGLGASTWQISIGAGAGNNGLGTSRQNAIGLGSNALTGLGGNNDTVNQLAGLL 60
Db 1 MSNTSGLGASTWQISIGAGAGNNGLGTSRQNAIGLGSNALTGLGGNNDTVNQLAGLL 60
QY 61 TGMNMMNMMGGGGLMGGGLGGGLGNGLGSGSGGLGEBLSNALNDMLGSLNTTGSKGGNN 120
Db 61 TGMNMMNMMGGGGLMGGGLGGGLGNGLGSGSGGLGEBLSNALNDMLGSLNTTGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSBSSDPMOQLKMFSEIMOSLFQDQDGT 180
Db 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSBSSDPMOQLKMFSEIMOSLFQDQDGT 180
QY 181 QGSSSGGKOPTBEGQNAKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDSSSL 240
Db 181 QGSSSGGKOPTBEGQNAKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDSSSL 240
QY 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGRAMAKEI 300
Db 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGRAMAKEI 300
QY 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
Db 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
Db 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

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RESULT 2
US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 597060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hartgrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030.270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1364
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-030-270A-3

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Query Match 100.0%; Score 2079; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 8,7e-174; Indels 0; Gaps 0;
Matches 403; Conservative 0; Mismatches 0;
QY 1 MSNTSGLGASTWQISIGAGAGNNGLGTSRQNAIGLGSNALTGLGGNNDTVNQLAGLL 60
Db 1 MSNTSGLGASTWQISIGAGAGNNGLGTSRQNAIGLGSNALTGLGGNNDTVNQLAGLL 60
QY 61 TGMNMMNMMGGGGLMGGGLGGGLGNGLGSGSGGLGEBLSNALNDMLGSLNTTGSKGGNN 120
Db 61 TGMNMMNMMGGGGLMGGGLGGGLGNGLGSGSGGLGEBLSNALNDMLGSLNTTGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSBSSDPMOQLKMFSEIMOSLFQDQDGT 180
Db 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSBSSDPMOQLKMFSEIMOSLFQDQDGT 180
QY 181 QGSSSGGKOPTBEGQNAKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDSSSL 240
Db 181 QGSSSGGKOPTBEGQNAKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDSSSL 240
QY 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGRAMAKEI 300
Db 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGRAMAKEI 300
QY 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
Db 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
Db 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

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RESULT 3
US-08-851-376A-2
; Sequence 2, Application US/08851376A
; Patent No. 6174717
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Collier, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon Peabody LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,376A
; FILING DATE: 05-MAY-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/200,724
; FILING DATE: 23-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304

```

TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-851-376A-2

Query Match 100.0%; Score 2079; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-174;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLTSGLGASTWQISIGAGAGNNGLIGTSRONAGLGNSALGAGGNDVTNQLAGLL 60
DB 1 MSLLTSGLGASTWQISIGAGAGNNGLIGTSRONAGLGNSALGAGGNDVTNQLAGLL 60
QY 61 TGMAMMMSMGCGGLMGCGGLGCGLGNGLGSGGGLGEGLSNALNDMLGSLNTTLGSKGNN 120
DB 61 TGMAMMMSMGCGGLMGCGGLGCGLGNGLGSGGGLGEGLSNALNDMLGSLNTTLGSKGNN 120
QY 121 TTSTTNSPLDQALGINSTQNDSTSGTSTSDSDPMQQLKMFSEIMOSLFGDQDGT 180
DB 121 TTSTTNSPLDQALGINSTQNDSTSGTSTSDSDPMQQLKMFSEIMOSLFGDQDGT 180
QY 181 QGSSSGGKOPTREGQNAKKKVTALSLGMNGISQLLNGGLGCGGAGNAGTLDGSSL 240
DB 181 QGSSSGGKOPTREGQNAKKKVTALSLGMNGISQLLNGGLGCGGAGNAGTLDGSSL 240
QY 241 GKGKQLNLSGPVDYQQLGNNAVGTIGMKAGIQALNDIGTRHSSSTRSFVNKGDDMAKEI 300
DB 241 GKGKQLNLSGPVDYQQLGNNAVGTIGMKAGIQALNDIGTRHSSSTRSFVNKGDDMAKEI 300
QY 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
DB 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 4

US-08-984-207-3
; Sequence 3, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:
; APPLICANT: Oiu, Dwen
; APPLICANT: Mei, Zhong-Min
; APPLICANT: Beef, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/984,207
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,230
; FILING DATE: 05-DEC-1996

ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,722
; REFERENCE/DOCKET NUMBER: 19603/1201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-984-207-3

Query Match 100.0%; Score 2079; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-174;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLTSGLGASTWQISIGAGAGNNGLIGTSRONAGLGNSALGAGGNDVTNQLAGLL 60
DB 1 MSLLTSGLGASTWQISIGAGAGNNGLIGTSRONAGLGNSALGAGGNDVTNQLAGLL 60
QY 61 TGMAMMMSMGCGGLMGCGGLGCGLGNGLGSGGGLGEGLSNALNDMLGSLNTTLGSKGNN 120
DB 61 TGMAMMMSMGCGGLMGCGGLGCGLGNGLGSGGGLGEGLSNALNDMLGSLNTTLGSKGNN 120
QY 121 TTSTTNSPLDQALGINSTQNDSTSGTSTSDSDPMQQLKMFSEIMOSLFGDQDGT 180
DB 121 TTSTTNSPLDQALGINSTQNDSTSGTSTSDSDPMQQLKMFSEIMOSLFGDQDGT 180
QY 181 QGSSSGGKOPTREGQNAKKKVTALSLGMNGISQLLNGGLGCGGAGNAGTLDGSSL 240
DB 181 QGSSSGGKOPTREGQNAKKKVTALSLGMNGISQLLNGGLGCGGAGNAGTLDGSSL 240
QY 241 GKGKQLNLSGPVDYQQLGNNAVGTIGMKAGIQALNDIGTRHSSSTRSFVNKGDDMAKEI 300
DB 241 GKGKQLNLSGPVDYQQLGNNAVGTIGMKAGIQALNDIGTRHSSSTRSFVNKGDDMAKEI 300
QY 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
DB 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 5

US-09-013-587-3
; Sequence 3, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Oiu, Dwen
; APPLICANT: Mei, Zhong-Min
; APPLICANT: Beef, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587

FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/036,048
 FILING DATE: 27-JAN-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Goldman, Michael L.
 REGISTRATION NUMBER: 30,727
 REFERENCE/DOCKET NUMBER: 19603/1501
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (716) 263-1304
 TELEFAX: (716) 263-1600
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 403 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-013-587-3

Query Match 100.0%; Score 2079; DB 3; Length 403;
 Best Local Similarity 100.0%; Pred. No. 8.7e-174;
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLSGIGASTWQISIGAGANNGLGTSRONAGLGNSALGIGGNDVTNQLAGLL 60
 DB 1 MSLSGIGASTWQISIGAGANNGLGTSRONAGLGNSALGIGGNDVTNQLAGLL 60
 QY 61 TGMNMMNMMGGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
 DB 61 TGMNMMNMMGGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
 QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDPMQQLKMFSEIMQSLFDDGDDGT 180
 DB 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDPMQQLKMFSEIMQSLFDDGDDGT 180
 QY 181 QGSSSGGKQPTGEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDSSSL 240
 DB 181 QGSSSGGKQPTGEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDSSSL 240
 QY 241 GKGGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKDRPAAKEI 300
 DB 241 GKGGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKDRPAAKEI 300
 QY 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
 DB 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
 QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
 DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 6
 US-09-086-118-23
 Sequence 23, Application US/09086118
 Patent No. 6583107

GENERAL INFORMATION:
 APPLICANT: Lady, Ronald J.
 APPLICANT: Beer, Steven V.
 APPLICANT: Wei, Zhong-Min
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
 TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
 NUMBER OF INVENTION: THEREOF
 NUMBER OF SEQUENCES: 30
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Nikon, Hargrave, Devans & Doyle LLP
 STREET: Clinton Square, P.O. Box 1051
 CITY: Rochester
 STATE: New York
 COUNTRY: U.S.A.
 ZIP: 14603

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/086,118
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/048,109
 FILING DATE: 30-MAY-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Goldman, Michael L.
 REGISTRATION NUMBER: 30,727
 REFERENCE/DOCKET NUMBER: 19603/1301
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (716) 263-1304
 TELEFAX: (716) 263-1600
 INFORMATION FOR SEQ ID NO: 23:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 403 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-086-118-23

Query Match 100.0%; Score 2079; DB 4; Length 403;
 Best Local Similarity 100.0%; Pred. No. 8.7e-174;
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLSGIGASTWQISIGAGANNGLGTSRONAGLGNSALGIGGNDVTNQLAGLL 60
 DB 1 MSLSGIGASTWQISIGAGANNGLGTSRONAGLGNSALGIGGNDVTNQLAGLL 60
 QY 61 TGMNMMNMMGGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
 DB 61 TGMNMMNMMGGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
 QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDPMQQLKMFSEIMQSLFDDGDDGT 180
 DB 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDPMQQLKMFSEIMQSLFDDGDDGT 180
 QY 181 QGSSSGGKQPTGEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDSSSL 240
 DB 181 QGSSSGGKQPTGEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDSSSL 240
 QY 241 GKGGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKDRPAAKEI 300
 DB 241 GKGGLQNLGSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKDRPAAKEI 300
 QY 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
 DB 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
 QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
 DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 7
 US-09-431-614-3
 Sequence 3, Application US/09431614
 Patent No. 6624139

GENERAL INFORMATION:
 APPLICANT: Wei, Zhong-Min
 APPLICANT: Schading, Richard L.
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
 TITLE OF INVENTION: RESISTANCE
 FILE REFERENCE: 21829/41 (EBC-003)
 CURRENT APPLICATION NUMBER: US/09/431,614
 CURRENT FILING DATE: 1999-11-02

EARLIER APPLICATION NUMBER: 60/107,243
EARLIER FILING DATE: 1998-11-05
NUMBER OF SEQ ID NOS: 18
SOFTWARE: Patent Ver. 2.0
SEQ ID NO 3
LENGTH: 403
TYPE: PR
ORGANISM: Erwinia amylovora
US-09-431-614-3

Query Match 100.0%; Score 2079; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 8,7e-174;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSMTSGIGASTMIGAGAGNNGLGSTRONAGLGNLSALGAGGQNDTVNQLAGLL 60
DB 1 MSMTSGIGASTMIGAGAGNNGLGSTRONAGLGNLSALGAGGQNDTVNQLAGLL 60
QY 61 TGMNMMMSMGGGGIMGGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
DB 61 TGMNMMMSMGGGGIMGGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTQNDSTGTDSTSDSDPMQQLKMFSEIMQSLFGDGODGT 180
DB 121 TTSTTNSPLDQALGINSTQNDSTGTDSTSDSDPMQQLKMFSEIMQSLFGDGODGT 180
QY 181 QGSSSGGKQPTGEGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGNAGTGLDSSL 240
DB 181 QGSSSGGKQPTGEGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGNAGTGLDSSL 240
QY 241 GKGGLQNLGSPVDYQQLGNNAVGTGIMKAGIQALNDIGTHRSSSTRSFVNGDRAMAKEI 300
DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIMKAGIQALNDIGTHRSSSTRSFVNGDRAMAKEI 300
QY 301 GQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGM1KR 360
DB 301 GQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGM1KR 360
QY 361 PMADDTGNGNIQARGAGSSIGIDAMAGDAINMALGKLGA 403
DB 361 PMADDTGNGNIQARGAGSSIGIDAMAGDAINMALGKLGA 403

RESULT 8
US-08-891-254-3
Sequence 3, Application US/08891254
Patent No. 5776889
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance in Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/891,254
FILING DATE: 10-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/475,775
FILING DATE:
ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 14603/10050
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-891-254-3

Query Match 92.7%; Score 1928; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.3e-160;
Matches 372; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSMTSGIGASTMIGAGAGNNGLGSTRONAGLGNLSALGAGGQNDTVNQLAGLL 60
DB 1 MSMTSGIGASTMIGAGAGNNGLGSTRONAGLGNLSALGAGGQNDTVNQLAGLL 60
QY 61 TGMNMMMSMGGGGIMGGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
DB 61 TGMNMMMSMGGGGIMGGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTQNDSTGTDSTSDSDPMQQLKMFSEIMQSLFGDGODGT 180
DB 121 TTSTTNSPLDQALGINSTQNDSTGTDSTSDSDPMQQLKMFSEIMQSLFGDGODGT 180
QY 181 QGSSSGGKQPTGEGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGNAGTGLDSSL 240
DB 181 QGSSSGGKQPTGEGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGNAGTGLDSSL 240
QY 241 GKGGLQNLGSPVDYQQLGNNAVGTGIMKAGIQALNDIGTHRSSSTRSFVNGDRAMAKEI 300
DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIMKAGIQALNDIGTHRSSSTRSFVNGDRAMAKEI 300
QY 301 GQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGM1KR 360
DB 301 GQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGM1KR 360
QY 361 PMADDTGNGNIQ 372
DB 361 PMADDTGNGNIQ 372

RESULT 9
US-08-819-539-3
Sequence 3, Application US/08819539
Patent No. 5859324
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance in Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/819,539
FILING DATE: 17-MAR-1997

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CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/475,775
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 14603/10050
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-819-539-3

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Query Match          92.7%; Score 1928; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.3e-160; Indels 0; Gaps 0;
Matches 372; Conservative 0; Mismatches 0;

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QY 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGNSALGCGGNQNDTVNQLAGLL 60
DB 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGNSALGCGGNQNDTVNQLAGLL 60
QY 61 TGMNMMNMMGGGGLMGCGGLGGGIGNGIGSGGIGEGISNALNDMLGSLNTLGSKGGNN 120
DB 61 TGMNMMNMMGGGGLMGCGGLGGGIGNGIGSGGIGEGISNALNDMLGSLNTLGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDSPMQQLKMFSEIMQSLFDDGDDGT 180
DB 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDSPMQQLKMFSEIMQSLFDDGDDGT 180
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDSPMQQLKMFSEIMQSLFDDGDDGT 180
DB 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDSPMQQLKMFSEIMQSLFDDGDDGT 180
QY 181 QGSSSGGKOPTBGRONAYKKGVTDALSGLMNGLSQLLGNGLGCGGQGNAGTGLDSSSL 240
DB 181 QGSSSGGKOPTBGRONAYKKGVTDALSGLMNGLSQLLGNGLGCGGQGNAGTGLDSSSL 240
QY 241 GKGKQLNLSGPDVYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEY 300
DB 241 GKGKQLNLSGPDVYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEY 300
QY 301 GQFMDOYPEVFGKPOYKQKPGQEVKTDKSWAKALSKPDDGMPASMEOFNKAKGMIKR 360
DB 301 GQFMDOYPEVFGKPOYKQKPGQEVKTDKSWAKALSKPDDGMPASMEOFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQ 372
DB 361 PMAGDTGNGNLQ 372

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RESULT 10
PCT-US96-08819-3
Sequence 3, Application PC/TUS9608819
GENERAL INFORMATION:
APPLICANT: Cornell Research Foundation, Inc.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
TITLE OF INVENTION: RESISTANCE IN PLANTS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devane & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

```

```

CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/08819
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,775
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10051
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-08819-3

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```

Query Match          92.7%; Score 1928; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.3e-160; Indels 0; Gaps 0;
Matches 372; Conservative 0; Mismatches 0;

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QY 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGNSALGCGGNQNDTVNQLAGLL 60
DB 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGNSALGCGGNQNDTVNQLAGLL 60
QY 61 TGMNMMNMMGGGGLMGCGGLGGGIGNGIGSGGIGEGISNALNDMLGSLNTLGSKGGNN 120
DB 61 TGMNMMNMMGGGGLMGCGGLGGGIGNGIGSGGIGEGISNALNDMLGSLNTLGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDSPMQQLKMFSEIMQSLFDDGDDGT 180
DB 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDSPMQQLKMFSEIMQSLFDDGDDGT 180
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDSPMQQLKMFSEIMQSLFDDGDDGT 180
DB 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSDDSPMQQLKMFSEIMQSLFDDGDDGT 180
QY 181 QGSSSGGKOPTBGRONAYKKGVTDALSGLMNGLSQLLGNGLGCGGQGNAGTGLDSSSL 240
DB 181 QGSSSGGKOPTBGRONAYKKGVTDALSGLMNGLSQLLGNGLGCGGQGNAGTGLDSSSL 240
QY 241 GKGKQLNLSGPDVYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEY 300
DB 241 GKGKQLNLSGPDVYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEY 300
QY 301 GQFMDOYPEVFGKPOYKQKPGQEVKTDKSWAKALSKPDDGMPASMEOFNKAKGMIKR 360
DB 301 GQFMDOYPEVFGKPOYKQKPGQEVKTDKSWAKALSKPDDGMPASMEOFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQ 372
DB 361 PMAGDTGNGNLQ 372

```

```

RESULT 11
PCT-US93-06243-2
Sequence 2, Application PC/TUS9306243
GENERAL INFORMATION:
APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
ADDRESSEE: Beer, Alan Collier, Sheng-Yang He, and Ron J. Laby
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

```

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

```

COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06243
FILING DATE: 19930630
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 907,935
FILING DATE: 01-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: CRF D-1172
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203) 268-1951
TELEFAX: (203) 268-1951
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
PCT-US93-06243-2

Query Match 92.0%; Score 1913; DB 5; Length 385;
Best Local Similarity 99.5%; Pred. No. 2,7e-159;
Matches 369; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSLLTSGIGASTWQISIGAGGNNGLGSTRONAGLGGNSALGCGGQNTVNOAGLL 60
DB 1 MSLLTSGIGASTWQISIGAGGNNGLGSTRONAGLGGNSALGCGGQNTVNOAGLL 60
QY 61 TGNMNMMSWGGGGLMGGLGGLGNGLGSGGGLGEGLSNALLNMLGSLNTLGSXGNN 120
DB 61 TGNMNMMSWGGGGLMGGLGGLGNGLGSGGGLGEGLSNALLNMLGSLNTLGSXGNN 120
QY 121 TTSTTNSPLDQALGINSTQNDSTSGTDSSTSDPQQQLKPFSEIMQSLFGDQDGT 180
DB 121 TTSTTNSPLDQALGINSTQNDSTSGTDSSTSDPQQQLKPFSEIMQSLFGDQDGT 180
QY 181 QGSSSGGKOPTGEONAYKKGVTDALSGLMNGLSQLLNGNGLGGCGGNGAGTGLDSSL 240
DB 181 QGSSSGGKOPTGEONAYKKGVTDALSGLMNGLSQLLNGNGLGGCGGNGAGTGLDSSL 240
QY 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTHRSSSTRSFVNGGRAMAKEI 300
DB 241 GKGGLRGLSGPVDYQOLGNAVGTGIGMKAGIQALNDIGTHRSSSTRSFVNGGRAMAKEI 300
QY 301 GQFMDOYPEVFGKPOYQKGPQOEYKTDKSWAKALSKPDDGMPASMEQFNKAKGMIR 360
DB 301 GQFMDOYPEVFGKPOYQKGPQOEYKTDKSWAKALSKPDDGMPASMEQFNKAKGMIR 360
QY 361 PMAGDTGNGNL 371
DB 361 PMAGDTGNGNL 371

RESULT 12
US-08-891-254-1
Sequence 1, Application US/08891254
Patent No. 5776889
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance in Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester

STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/891,254
FILING DATE: 10-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/475,775
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 14603/10050
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-891-254-1

Query Match 34.6%; Score 718 5; DB 1; Length 338;
Best Local Similarity 42.8%; Pred. No. 7.1e-55;
Matches 173; Conservative 41; Mismatches 11; Indels 79; Gaps 11;

QY 13 MQISI-GGAGGNNGLGSTRONAGLGG-NSA---LGLGGQNTVNOAGLLTGMNMM 67
DB 1 MQITIKAHIGDGLVSGLGAQ--GLKGINSAASSLVDSITDKLTALISM--- 55
QY 68 SMWGGLMGGLGGLGNGLGSGGGLGEGLSNALLNMLGSLNTLGSXGNNNTTSTNS 127
DB 56 -----FGGALAQGLGAS-SKGLGMSNQLGQSFGN-----GAQGANLLSYPK- 96
QY 128 PLDQALGINSTQNDSTSGTDSSTSDPQQQLKPFSEIMQSLFG-----DQDGS 179
DB 97 -----SGDALS-----KPFDKALDPLLGHDTYTKLTNSNQ 128
QY 180 TQSSSGKOPTGEONAYKKGVTDALSGLMNGLSQLLNGNGLGGCGGNGAGTGLDSS 239
DB 129 LANSMLASQMTQGMNNAFGSGVNNALSSILGNGLSM-----SGFQPS 174
QY 240 LGGKGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTHRSSSTRSFVNGGRAMAKE 299
DB 175 LGAGGLQGLGAGAFNQLGNAVIGMGVQNALSLSNVSTIVDCNNHFVDEKEDGMAKE 234
QY 300 IGFMDQYPEVFGKPOYQKGPQOEYKTDKSWAKALSKPDDGMPASMEQFNKAKGMIR 359
DB 235 IGFMDQYPEVFGKPOYQKGPQOEYKTDKSWAKALSKPDDGMPASMEQFNKAKGMIR 294
QY 360 RPMAGDTGNGNLQARGAGSSSLGIDAMAGDAINNMALGKGA 403
DB 295 SAVAGDTGNTNLNARGAGASLIGIDAIVDDKXINMNLGKLANA 338

RESULT 13
US-08-484-358-2
Sequence 2, Application US/08484358
Patent No. 5850015
GENERAL INFORMATION:
APPLICANT: Bauer, David
APPLICANT: Collier, Alan
TITLE OF INVENTION: Hypersensitive Response Elicitor
TITLE OF INVENTION: From

```

; TITLE OF INVENTION: Erwinia Chrysanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,358
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-484-358-2

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Query Match      34.6%; Score 718.5; DB 2; Length 338;
Best Local Similarity 42.8%; Pred. No. 7.1e-55;
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

QY 13 MQISL-GGAGNNGLGTSRQNAIGG-NSA---LGIGGNQNDVTNQLAGLLTGMMMM 67
DB 1 MQITIKAHIGDGLVSGLAGQ--GLKGLNSAASLGSVDKLSITDKLTSAITSM--- 55
QY 68 SMWGGGGLMGGLGGGGLGNGIGSGGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNS 127
DB 56 -----FGGALAQGLGAS-SKGLGMSNQLGSGFGN-----GAQGASNLISVPK- 96
QY 128 PLDQALGINSTQNDSTSGTSDTSDDSPMQQLLKMFSEIMQSLFG-----DQDQ 179
DB 97 -----SGGDALS-----KMFDKALDDLGHDTVTYTKLTNSNQ 128
QY 180 TQSSSGGKQPTBEGEONAYKKGVTDALSGLMNGLSQLLNGNGIGGGGAGNAGTGLDSS 239
DB 129 LANSMLNASQMTQGNMNAFGSGVNNALSSILNGIGGSM-----SGFQPS 174
QY 240 LGKGLQNLGSPVYQQLGNAVGTGIGMKAGIQALNDIGTHRHSTRSFVNKGDRMAKE 299
DB 175 LGAGGLQGLSGAGFNQLGNAIGWGVQNALSLSNVSTHVGDNNHFFVKEDRGMAKE 234
QY 300 IGGEMDQYPEVFGKROYOKPGQGEVKTDDKSMAYALSKPDDGWTSPASMEQFNKAKMIK 359
DB 235 IGGEMDQYPELFGKPEYOKGMSSEPKTDDKSMAYALSKPDDGWTGASMDKFRQAMGMIK 294
QY 360 RPMAGDTGNGNTLQARGAGSSLGIDAMWAGDAINNMALGKLGA 403
DB 295 SAVAGDTGNTLNLRGAGGASLGIDAAVVGDKIANNMISLGLKANA 338

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RESULT 14
; US-08-819-539-1
; Sequence 1, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min

```

```

; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-1

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Query Match      34.6%; Score 718.5; DB 2; Length 338;
Best Local Similarity 42.8%; Pred. No. 7.1e-55;
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

QY 13 MQISL-GGAGNNGLGTSRQNAIGG-NSA---LGIGGNQNDVTNQLAGLLTGMMMM 67
DB 1 MQITIKAHIGDGLVSGLAGQ--GLKGLNSAASLGSVDKLSITDKLTSAITSM--- 55
QY 68 SMWGGGGLMGGLGGGGLGNGIGSGGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNS 127
DB 56 -----FGGALAQGLGAS-SKGLGMSNQLGSGFGN-----GAQGASNLISVPK- 96
QY 128 PLDQALGINSTQNDSTSGTSDTSDDSPMQQLLKMFSEIMQSLFG-----DQDQ 179
DB 97 -----SGGDALS-----KMFDKALDDLGHDTVTYTKLTNSNQ 128
QY 180 TQSSSGGKQPTBEGEONAYKKGVTDALSGLMNGLSQLLNGNGIGGGGAGNAGTGLDSS 239
DB 129 LANSMLNASQMTQGNMNAFGSGVNNALSSILNGIGGSM-----SGFQPS 174
QY 240 LGKGLQNLGSPVYQQLGNAVGTGIGMKAGIQALNDIGTHRHSTRSFVNKGDRMAKE 299
DB 175 LGAGGLQGLSGAGFNQLGNAIGWGVQNALSLSNVSTHVGDNNHFFVKEDRGMAKE 234
QY 300 IGGEMDQYPEVFGKROYOKPGQGEVKTDDKSMAYALSKPDDGWTSPASMEQFNKAKMIK 359
DB 235 IGGEMDQYPELFGKPEYOKGMSSEPKTDDKSMAYALSKPDDGWTGASMDKFRQAMGMIK 294
QY 360 RPMAGDTGNGNTLQARGAGSSLGIDAMWAGDAINNMALGKLGA 403
DB 295 SAVAGDTGNTLNLRGAGGASLGIDAAVVGDKIANNMISLGLKANA 338

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```

RESULT 15

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TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 2079; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1,2e-156;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSNTSGIGASTWQISIGAGAGNNGLGTSRQNAAGLGGNSALGCGGNQNDTVNQLAGLL 60
DB 1 MSNTSGIGASTWQISIGAGAGNNGLGTSRQNAAGLGGNSALGCGGNQNDTVNQLAGLL 60
QY 61 TGMNMMMSMGGGGLMGGGLGGGLGNGLGSSGGLGEGLSNALNDMLGSLNTTLLGSKGNN 120
DB 61 TGMNMMMSMGGGGLMGGGLGGGLGNGLGSSGGLGEGLSNALNDMLGSLNTTLLGSKGNN 120
QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQQLKMFSEIMOSLFGDGQDGT 180
DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQQLKMFSEIMOSLFGDGQDGT 180
QY 181 QGSSSGGKQPTREGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDGSLL 240
DB 181 QGSSSGGKQPTREGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDGSLL 240
QY 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHHSSTRSFVNKGDRAAKEI 300
DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHHSSTRSFVNKGDRAAKEI 300
QY 301 GQFMDOYPEVFGKPOYQKGPQEVKTDKSWAKALSKEPDDGMPASMEQFNKAKGMIKR 360
DB 301 GQFMDOYPEVFGKPOYQKGPQEVKTDKSWAKALSKEPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARAGAGSSSLGIDAMMAGDAINNMALGKLGA 403
DB 361 PMAGDTGNGNLQARAGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 2
US-09-835-684-3
Sequence 3, Application US/09835684
Patent No. US20020019337A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Qiu, Dewen
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
FILE REFERENCE: 21829/71
CURRENT APPLICATION NUMBER: US/09/835,684
CURRENT FILING DATE: 2001-04-16
PRIOR APPLICATION NUMBER: 60/198,359
PRIOR FILING DATE: 2000-04-19
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Patent Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match 100.0%; Score 2079; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1,2e-156;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSNTSGIGASTWQISIGAGAGNNGLGTSRQNAAGLGGNSALGCGGNQNDTVNQLAGLL 60

DB 1 MSNTSGIGASTWQISIGAGAGNNGLGTSRQNAAGLGGNSALGCGGNQNDTVNQLAGLL 60
QY 61 TGMNMMMSMGGGGLMGGGLGGGLGNGLGSSGGLGEGLSNALNDMLGSLNTTLLGSKGNN 120
DB 61 TGMNMMMSMGGGGLMGGGLGGGLGNGLGSSGGLGEGLSNALNDMLGSLNTTLLGSKGNN 120
QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQQLKMFSEIMOSLFGDGQDGT 180
DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQQLKMFSEIMOSLFGDGQDGT 180
QY 181 QGSSSGGKQPTREGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDGSLL 240
DB 181 QGSSSGGKQPTREGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDGSLL 240
QY 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHHSSTRSFVNKGDRAAKEI 300
DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHHSSTRSFVNKGDRAAKEI 300
QY 301 GQFMDOYPEVFGKPOYQKGPQEVKTDKSWAKALSKEPDDGMPASMEQFNKAKGMIKR 360
DB 301 GQFMDOYPEVFGKPOYQKGPQEVKTDKSWAKALSKEPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARAGAGSSSLGIDAMMAGDAINNMALGKLGA 403
DB 361 PMAGDTGNGNLQARAGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 3
US-09-880-371-3
Sequence 3, Application US/09880371
Patent No. US20020059658A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: DeKocher, Jay
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
TITLE OF INVENTION: PLANTS
FILE REFERENCE: 21829/91
CURRENT APPLICATION NUMBER: US/09/880,371
CURRENT FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: 60/211,585
PRIOR FILING DATE: 2000-06-15
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Patent Ver. 2.1
SEQ ID NO 3
LENGTH: 403
TYPE: PRT
ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match 100.0%; Score 2079; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1,2e-156;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSNTSGIGASTWQISIGAGAGNNGLGTSRQNAAGLGGNSALGCGGNQNDTVNQLAGLL 60
DB 1 MSNTSGIGASTWQISIGAGAGNNGLGTSRQNAAGLGGNSALGCGGNQNDTVNQLAGLL 60
QY 61 TGMNMMMSMGGGGLMGGGLGGGLGNGLGSSGGLGEGLSNALNDMLGSLNTTLLGSKGNN 120
DB 61 TGMNMMMSMGGGGLMGGGLGGGLGNGLGSSGGLGEGLSNALNDMLGSLNTTLLGSKGNN 120
QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQQLKMFSEIMOSLFGDGQDGT 180
DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQQLKMFSEIMOSLFGDGQDGT 180
QY 181 QGSSSGGKQPTREGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDGSLL 240
DB 181 QGSSSGGKQPTREGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGGNAAGTGLDGSLL 240
QY 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHHSSTRSFVNKGDRAAKEI 300
DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHHSSTRSFVNKGDRAAKEI 300

QY 301 GQFMDQYBEVFGKQYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
Db 301 GQFMDQYBEVFGKQYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403
Db 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403

RESULT 4
US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match 100.0%; Score 2079; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1,2e-156;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSINTSGIGASTWQISIGAGGNNGLGTSRONAGLGNSALGIGGQNDVTNQLAGLL 60
Db 1 MSINTSGIGASTWQISIGAGGNNGLGTSRONAGLGNSALGIGGQNDVTNQLAGLL 60
QY 61 TGMNMMMSMMGGGGLMGGLGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
Db 61 TGMNMMMSMMGGGGLMGGLGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSTSDSDPMQOLLKMFSEIMOSLFPDGDGCT 180
Db 121 TTSTTNSPLDQALGINSTSQNDSTSGTSTSDSDPMQOLLKMFSEIMOSLFPDGDGCT 180
QY 181 QGSSSGKOPTGEGRONYKKGVTDALSGLMNGLSOLLGNGGLGGGQGNAGTGLDSSSL 240
Db 181 QGSSSGKOPTGEGRONYKKGVTDALSGLMNGLSOLLGNGGLGGGQGNAGTGLDSSSL 240
QY 241 GKGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEI 300
Db 241 GKGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEI 300
QY 301 GQFMDQYBEVFGKQYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
Db 301 GQFMDQYBEVFGKQYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403
Db 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403

RESULT 5
US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US2002006943A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: COMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF

; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match 100.0%; Score 2079; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 1,2e-156;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSINTSGIGASTWQISIGAGGNNGLGTSRONAGLGNSALGIGGQNDVTNQLAGLL 60
Db 1 MSINTSGIGASTWQISIGAGGNNGLGTSRONAGLGNSALGIGGQNDVTNQLAGLL 60
QY 61 TGMNMMMSMMGGGGLMGGLGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
Db 61 TGMNMMMSMMGGGGLMGGLGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSTSDSDPMQOLLKMFSEIMOSLFPDGDGCT 180
Db 121 TTSTTNSPLDQALGINSTSQNDSTSGTSTSDSDPMQOLLKMFSEIMOSLFPDGDGCT 180
QY 181 QGSSSGKOPTGEGRONYKKGVTDALSGLMNGLSOLLGNGGLGGGQGNAGTGLDSSSL 240
Db 181 QGSSSGKOPTGEGRONYKKGVTDALSGLMNGLSOLLGNGGLGGGQGNAGTGLDSSSL 240
QY 241 GKGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEI 300
Db 241 GKGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEI 300
QY 301 GQFMDQYBEVFGKQYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
Db 301 GQFMDQYBEVFGKQYQKPGQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403
Db 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dwen
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match 100.0%; Score 2079; DB 9; Length 403;
 Best Local Similarity 100.0%; Pred. No. 1.2e-156;
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSINTSGASTMOWISIGAGANNGLIGTSRONAGLGSNSALGIGGQNDVTYNQLAGLL 60
 DB 1 MSINTSGASTMOWISIGAGANNGLIGTSRONAGLGSNSALGIGGQNDVTYNQLAGLL 60
 QY 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLGSGSGGIGEGLSNALNDMLGGSINTTIGSKGNN 120
 DB 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLGSGSGGIGEGLSNALNDMLGGSINTTIGSKGNN 120
 QY 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLGSGSGGIGEGLSNALNDMLGGSINTTIGSKGNN 120
 DB 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLGSGSGGIGEGLSNALNDMLGGSINTTIGSKGNN 120
 QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQOLLKMFSEIMOSLFGDGDDGT 180
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQOLLKMFSEIMOSLFGDGDDGT 180
 QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQOLLKMFSEIMOSLFGDGDDGT 180
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQOLLKMFSEIMOSLFGDGDDGT 180

US-10-034-158-3
 ; Sequence 3, Application US/10034158
 ; Publication No. US20030028918A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wei, Zhong-Min
 ; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
 ; FILE REFERENCE: 21829/230
 ; CURRENT APPLICATION NUMBER: US/10/034,158
 ; CURRENT FILING DATE: 2001-12-20
 ; PRIOR APPLICATION NUMBER: 09/597,840
 ; PRIOR FILING DATE: 2000-06-20
 ; PRIOR APPLICATION NUMBER: 09/013,587
 ; PRIOR FILING DATE: 1998-01-26
 ; PRIOR APPLICATION NUMBER: 60/036,048
 ; PRIOR FILING DATE: 1997-01-27
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 403
 ; TYPE: PRT
 ; ORGANISM: Erwinia amylovora
 ; US-10-034-158-3

Query Match 100.0%; Score 2079; DB 14; Length 403;
 Best Local Similarity 100.0%; Pred. No. 1.2e-156;
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 181 QGSSSGKOPTBEGONAYKKGVTDALSLGMNGLSQLLNGGLGGGCGNAGTGLDSSSL 240
 DB 181 QGSSSGKOPTBEGONAYKKGVTDALSLGMNGLSQLLNGGLGGGCGNAGTGLDSSSL 240
 QY 241 GGGKQLNLSGPVYQOLGNAVGTGIGMKAGIQALNDIGTRHSHSTRSFVKKGRAMAKEI 300
 DB 241 GGGKQLNLSGPVYQOLGNAVGTGIGMKAGIQALNDIGTRHSHSTRSFVKKGRAMAKEI 300
 QY 301 GQFMDQYPEVFGKPOYKQKPGQEVKTDKSWAKALSXPDDGDMTPASMEQFNKAKMIKR 360
 DB 301 GQFMDQYPEVFGKPOYKQKPGQEVKTDKSWAKALSXPDDGDMTPASMEQFNKAKMIKR 360
 QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGAA 403
 DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGAA 403

RESULT 8
 ; Sequence 3, Application US/10010390
 ; Publication No. US20030104979A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wei, Zhong-Min
 ; APPLICANT: Leon, Ernesto
 ; APPLICANT: Oviedo, Agustín
 ; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
 ; FILE REFERENCE: 21829/111
 ; CURRENT APPLICATION NUMBER: US/10/010,390
 ; CURRENT FILING DATE: 2001-11-05
 ; PRIOR APPLICATION NUMBER: 60/248,169
 ; PRIOR FILING DATE: 2000-11-13
 ; NUMBER OF SEQ ID NOS: 14
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 403
 ; TYPE: PRT
 ; ORGANISM: Erwinia amylovora
 ; US-10-010-390-3

Query Match 100.0%; Score 2079; DB 14; Length 403;
 Best Local Similarity 100.0%; Pred. No. 1.2e-156;
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSINTSGASTMOWISIGAGANNGLIGTSRONAGLGSNSALGIGGQNDVTYNQLAGLL 60
 DB 1 MSINTSGASTMOWISIGAGANNGLIGTSRONAGLGSNSALGIGGQNDVTYNQLAGLL 60
 QY 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLGSGSGGIGEGLSNALNDMLGGSINTTIGSKGNN 120
 DB 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLGSGSGGIGEGLSNALNDMLGGSINTTIGSKGNN 120
 QY 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLGSGSGGIGEGLSNALNDMLGGSINTTIGSKGNN 120
 DB 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLGSGSGGIGEGLSNALNDMLGGSINTTIGSKGNN 120
 QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQOLLKMFSEIMOSLFGDGDDGT 180
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQOLLKMFSEIMOSLFGDGDDGT 180
 QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQOLLKMFSEIMOSLFGDGDDGT 180
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDPMQOLLKMFSEIMOSLFGDGDDGT 180

US-10-010-390-3
 ; Sequence 3, Application US/10010390
 ; Publication No. US20030104979A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wei, Zhong-Min
 ; APPLICANT: Leon, Ernesto
 ; APPLICANT: Oviedo, Agustín
 ; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
 ; FILE REFERENCE: 21829/111
 ; CURRENT APPLICATION NUMBER: US/10/010,390
 ; CURRENT FILING DATE: 2001-11-05
 ; PRIOR APPLICATION NUMBER: 60/248,169
 ; PRIOR FILING DATE: 2000-11-13
 ; NUMBER OF SEQ ID NOS: 14
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 403
 ; TYPE: PRT
 ; ORGANISM: Erwinia amylovora
 ; US-10-010-390-3

RESULT 9
US-10-387-806-23

; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match 100.0%; Score 2079; DB 14; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.2e-156;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSNTSLGASTWQISIGAGAGNNGLGTSRQNALGNSALGAGGQNDVTYVQLAGLL 60
DB 1 MSNTSLGASTWQISIGAGAGNNGLGTSRQNALGNSALGAGGQNDVTYVQLAGLL 60
QY 61 TGMAMMMWGGGGLMGGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGL 120
DB 61 TGMAMMMWGGGGLMGGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGL 120
QY 121 TTSTTNSPLDQALGINSTQNDSTSGTSDTSBSSDPMQQLKMFSSIMQSLFEGDQDGT 180
DB 121 TTSTTNSPLDQALGINSTQNDSTSGTSDTSBSSDPMQQLKMFSSIMQSLFEGDQDGT 180
QY 181 QGSSSGGKOPTBEGQNAKKYKGTVDALSGLMNGLSQLLGNGLGAGGQGNAGTGLDSSSL 240
DB 181 QGSSSGGKOPTBEGQNAKKYKGTVDALSGLMNGLSQLLGNGLGAGGQGNAGTGLDSSSL 240
QY 241 GKGGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVKKGRAMAKEI 300
DB 241 GKGGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVKKGRAMAKEI 300
QY 301 GQFMDQYPEVFGKPYQYKQGEVKTDDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
DB 301 GQFMDQYPEVFGKPYQYKQGEVKTDDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 10
US-10-441-736-3

; Sequence 3, Application US/10441736
; Publication No. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/203 (RBC-003)
; CURRENT APPLICATION NUMBER: US/10/441,736
; CURRENT FILING DATE: 2003-05-20
; PRIOR APPLICATION NUMBER: 60/107,243
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: 09/431,614

PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-441-736-3

Query Match 100.0%; Score 2079; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.2e-156;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSNTSLGASTWQISIGAGAGNNGLGTSRQNALGNSALGAGGQNDVTYVQLAGLL 60
DB 1 MSNTSLGASTWQISIGAGAGNNGLGTSRQNALGNSALGAGGQNDVTYVQLAGLL 60
QY 61 TGMAMMMWGGGGLMGGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGL 120
DB 61 TGMAMMMWGGGGLMGGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGLGAGGL 120
QY 121 TTSTTNSPLDQALGINSTQNDSTSGTSDTSBSSDPMQQLKMFSSIMQSLFEGDQDGT 180
DB 121 TTSTTNSPLDQALGINSTQNDSTSGTSDTSBSSDPMQQLKMFSSIMQSLFEGDQDGT 180
QY 181 QGSSSGGKOPTBEGQNAKKYKGTVDALSGLMNGLSQLLGNGLGAGGQGNAGTGLDSSSL 240
DB 181 QGSSSGGKOPTBEGQNAKKYKGTVDALSGLMNGLSQLLGNGLGAGGQGNAGTGLDSSSL 240
QY 241 GKGGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVKKGRAMAKEI 300
DB 241 GKGGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVKKGRAMAKEI 300
QY 301 GQFMDQYPEVFGKPYQYKQGEVKTDDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
DB 301 GQFMDQYPEVFGKPYQYKQGEVKTDDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360
QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 11
US-09-086-118-21

; Sequence 21, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
ADDRESSES: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/086,118
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/048,109
FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:
 NAME: Goldman, Michael L.
 REGISTRATION NUMBER: 30,727
 REFERENCE/DOCKET NUMBER: 19603/1301
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (716) 263-1304
 TELEFAX: (716) 263-1600
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 338 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-086-118-21

Query Match 34.6%; Score 718.5; DB 9; Length 338;
 Best Local Similarity 42.8%; Pred. No. 8.1e-49;
 Matches 173; Conservative 41; Mismatches 11; Indels 79; Gaps 11;

QY 13 MOISI-GGAGGNNGLGTSRQNAAGLGG-NSA---LGGGQNDVTNQLAGLLTGMMMM 67
 DB 1 MOTTIKAHIGDGLVSGLAGQ--GLKGLNSAASSLVKLSSTIDKLTSLTSMN--- 55
 QY 68 SMWGGGLMGGLGGGLGGGLGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNS 127
 DB 56 -----FGALAGLGAS-SKGLGMSNQLGGSFGN-----GAQASNLISVPK- 96
 QY 128 PLDQALGINSTSQNDSTSGTSDSDSPMQQLKMFSEIMOSLFG-----DGODG 179
 DB 97 -----SGGDALS-----KMFDAKLDLGHDTVTYKLTNOSNQ 128
 QY 180 TQSSSGGKOPTGEQNAKKYKVTDALSGLMGNGLSQLLGGGLGGGQGNAGTGLDGS 239
 DB 129 LANSMLASQMTQGNMNAFGSGVNNALSLILGNGLGSM-----SGFSQPS 174
 QY 240 LGGKGLNTLGPVYQOLGNAVGTGIGMKAGIQALNDIGTHRSSTPSFVNKGDRAVAK 299
 DB 175 LGAGGLGSLGAGAFNQLGNAIGMGVQNALSLNSVSTHVDGNNRHFDKEDRGVAK 234
 QY 300 IGFMDQYPEVFGKPYQKPGQEVKTDKSMAKALSPPDDGNTPRASMEQFNKAKGM 359
 DB 235 IGFMDQYPEVFGKPYQKPGQEVKTDKSMAKALSPPDDGNTPRASMEQFNKAKGM 294
 QY 360 RPAAGDTGNGNLQARGAGSSSLGIDAMMAGDALNNMALGKLGAA 403
 DB 295 SAVAGDTGNTNLNRGAGASLGIDAAVVGDKIANMSLGKLANA 338

RESULT 12
 US-09-835-684-1
 Sequence 1, Application US/09835684
 Patent No. US20020019337A1
 GENERAL INFORMATION:
 APPLICANT: Wei, Zhong-Min
 APPLICANT: Qiu, Deyen
 APPLICANT: Remick, Dean
 TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
 TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
 TITLE OF INVENTION: DESICCATION
 FILE REFERENCE: 21829/71
 CURRENT APPLICATION NUMBER: US/09/835,684
 PRIOR FILING DATE: 2001-04-16
 PRIOR APPLICATION NUMBER: 60/198,359
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: Patent In Ver. 2.1

US-09-835-684-1
 SEQ ID NO 1
 LENGTH: 338
 TYPE: PRT
 ORGANISM: Erwinia chrysanthemi
 US-09-835-684-1

Query Match 34.6%; Score 718.5; DB 9; Length 338;
 Best Local Similarity 42.8%; Pred. No. 8.1e-49;
 Matches 173; Conservative 41; Mismatches 11; Indels 79; Gaps 11;

QY 13 MOISI-GGAGGNNGLGTSRQNAAGLGG-NSA---LGGGQNDVTNQLAGLLTGMMMM 67
 DB 1 MOTTIKAHIGDGLVSGLAGQ--GLKGLNSAASSLVKLSSTIDKLTSLTSMN--- 55
 QY 68 SMWGGGLMGGLGGGLGGGLGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNS 127
 DB 56 -----FGALAGLGAS-SKGLGMSNQLGGSFGN-----GAQASNLISVPK- 96
 QY 128 PLDQALGINSTSQNDSTSGTSDSDSPMQQLKMFSEIMOSLFG-----DGODG 179
 DB 97 -----SGGDALS-----KMFDAKLDLGHDTVTYKLTNOSNQ 128
 QY 180 TQSSSGGKOPTGEQNAKKYKVTDALSGLMGNGLSQLLGGGLGGGQGNAGTGLDGS 239
 DB 129 LANSMLASQMTQGNMNAFGSGVNNALSLILGNGLGSM-----SGFSQPS 174
 QY 240 LGGKGLNTLGPVYQOLGNAVGTGIGMKAGIQALNDIGTHRSSTPSFVNKGDRAVAK 299
 DB 175 LGAGGLGSLGAGAFNQLGNAIGMGVQNALSLNSVSTHVDGNNRHFDKEDRGVAK 234
 QY 300 IGFMDQYPEVFGKPYQKPGQEVKTDKSMAKALSPPDDGNTPRASMEQFNKAKGM 359
 DB 235 IGFMDQYPEVFGKPYQKPGQEVKTDKSMAKALSPPDDGNTPRASMEQFNKAKGM 294
 QY 360 RPAAGDTGNGNLQARGAGSSSLGIDAMMAGDALNNMALGKLGAA 403
 DB 295 SAVAGDTGNTNLNRGAGASLGIDAAVVGDKIANMSLGKLANA 338

RESULT 13
 US-09-880-371-1
 Sequence 1, Application US/09880371
 Patent No. US20020059658A1
 GENERAL INFORMATION:
 APPLICANT: Wei, Zhong-Min
 APPLICANT: DeBocher, Jay
 TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
 TITLE OF INVENTION: PLANTS
 FILE REFERENCE: 21829/91
 CURRENT APPLICATION NUMBER: US/09/880,371
 PRIOR FILING DATE: 2001-06-13
 PRIOR APPLICATION NUMBER: 60/211,585
 NUMBER OF SEQ ID NOS: 16
 SOFTWARE: Patent In Ver. 2.1

US-09-880-371-1
 SEQ ID NO 1
 LENGTH: 338
 TYPE: PRT
 ORGANISM: Erwinia chrysanthemi
 US-09-880-371-1

Query Match 34.6%; Score 718.5; DB 9; Length 338;
 Best Local Similarity 42.8%; Pred. No. 8.1e-49;
 Matches 173; Conservative 41; Mismatches 11; Indels 79; Gaps 11;

QY 13 MOISI-GGAGGNNGLGTSRQNAAGLGG-NSA---LGGGQNDVTNQLAGLLTGMMMM 67
 DB 1 MOTTIKAHIGDGLVSGLAGQ--GLKGLNSAASSLVKLSSTIDKLTSLTSMN--- 55
 QY 68 SMWGGGLMGGLGGGLGGGLGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNS 127
 DB 56 -----FGALAGLGAS-SKGLGMSNQLGGSFGN-----GAQASNLISVPK- 96
 QY 128 PLDQALGINSTSQNDSTSGTSDSDSPMQQLKMFSEIMOSLFG-----DGODG 179
 DB 97 -----SGGDALS-----KMFDAKLDLGHDTVTYKLTNOSNQ 128
 QY 180 TQSSSGGKOPTGEQNAKKYKVTDALSGLMGNGLSQLLGGGLGGGQGNAGTGLDGS 239


```
Db 129 LANSMLNASQMTQGNMNAFSGVNNALSLILGNLGGSM-----SGFSOPS 174
Qy 240 LGGKGLNLSGPVDYQOOLGNAVGTGIGMKAGIOALNDIGTHRSSTRS FVNKGDPRAMAKE 299
Db 175 LGAGGLGGLSGAGAFNQLGNAIGMVGONALSLSNVSTHVDGNHNFVDKEDRGMAKE 234
Qy 300 IGGFMDDYPRIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIX 359
Db 235 IGGFMDDYPRIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIX 294
Qy 360 RPNAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMLGKLGAA 403
Db 295 SAVAGDTGNTNMLNRGAGASLGIDAAVVDKIANMSLGKLANA 338

RESULT 14
US-09-879-248-1
; Sequence 1, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
; US-09-879-248-1

Query Match 34.6%; Score 718.5; DB 9; Length 338;
Best Local Similarity 42.8%; Pred. No. 8.1e-49;
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

Qy 13 MOISI-GGAGGNNGLGSTRQNALGG-NSA---LGLGGNQNDTVNQLAGLITGMMMM 67
Db 1 MOTITKHHIGDGLVSLGAQ--GLKGLNSHASSLSSVDKLSITIDKLTSLTSM--- 55
Qy 68 SMNCGGLMGGLGGGLGNGLGSGGLGEGLSNALNDMLGGLSLNTLGSKGGNNTTSTNS 127
Db 56 -----FCGALAQGLGAS-SKGLGMSNQLGGSFGN-----GAQGSANLSVVK- 96
Qy 128 PLDQALGINSTQNDSTSGTSDTSDDPMQQLIKPFSEIMOSLFG-----DQDQ 179
Db 97 -----SGGDALS-----KMFDKALDDLGHDTVTKLTJNSNQ 128
Qy 180 TQSSSGGKQPTGEONAYKGVTDALSGLMGNGLSOLLGNGLGSGGGGAGNAGTGLDSS 239
Db 129 LANSMLNASQMTQGNMNAFSGVNNALSLILGNLGGSM-----SGFSOPS 174
Qy 240 LGGKGLNLSGPVDYQOOLGNAVGTGIGMKAGIOALNDIGTHRSSTRS FVNKGDPRAMAKE 299
Db 175 LGAGGLGGLSGAGAFNQLGNAIGMVGONALSLSNVSTHVDGNHNFVDKEDRGMAKE 234
Qy 300 IGGFMDDYPRIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIX 359
Db 235 IGGFMDDYPRIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIX 294
Qy 360 RPNAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMLGKLGAA 403
Db 295 SAVAGDTGNTNMLNRGAGASLGIDAAVVDKIANMSLGKLANA 338

RESULT 15
US-09-770-693-1
; Sequence 1, Application US/09770693
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; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: COMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
; US-09-770-693-1

Query Match 34.6%; Score 718.5; DB 9; Length 338;
Best Local Similarity 42.8%; Pred. No. 8.1e-49;
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

Qy 13 MOISI-GGAGGNNGLGSTRQNALGG-NSA---LGLGGNQNDTVNQLAGLITGMMMM 67
Db 1 MOTITKHHIGDGLVSLGAQ--GLKGLNSHASSLSSVDKLSITIDKLTSLTSM--- 55
Qy 68 SMNCGGLMGGLGGGLGNGLGSGGLGEGLSNALNDMLGGLSLNTLGSKGGNNTTSTNS 127
Db 56 -----FCGALAQGLGAS-SKGLGMSNQLGGSFGN-----GAQGSANLSVVK- 96
Qy 128 PLDQALGINSTQNDSTSGTSDTSDDPMQQLIKPFSEIMOSLFG-----DQDQ 179
Db 97 -----SGGDALS-----KMFDKALDDLGHDTVTKLTJNSNQ 128
Qy 180 TQSSSGGKQPTGEONAYKGVTDALSGLMGNGLSOLLGNGLGSGGGGAGNAGTGLDSS 239
Db 129 LANSMLNASQMTQGNMNAFSGVNNALSLILGNLGGSM-----SGFSOPS 174
Qy 240 LGGKGLNLSGPVDYQOOLGNAVGTGIGMKAGIOALNDIGTHRSSTRS FVNKGDPRAMAKE 299
Db 175 LGAGGLGGLSGAGAFNQLGNAIGMVGONALSLSNVSTHVDGNHNFVDKEDRGMAKE 234
Qy 300 IGGFMDDYPRIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIX 359
Db 235 IGGFMDDYPRIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIX 294
Qy 360 RPNAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMLGKLGAA 403
Db 295 SAVAGDTGNTNMLNRGAGASLGIDAAVVDKIANMSLGKLANA 338

Search completed: March 11, 2005, 13:14:15
Job time : 76.4565 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 11, 2005, 12:36:12 ; Search time 21.5694 Seconds
(without alignments)
1169.775 Million cell updates/sec

Title: US-09-597-840-1

Perfect score: 1 MOTTIRAHIGDGLVSGSLG.....DAAVGDKIANMGLKLANA 338

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1704	100.0	338	1	US-08-891-254-1
2	1704	100.0	338	2	US-08-484-358-2
3	1704	100.0	338	2	US-08-819-539-1
4	1704	100.0	338	2	US-09-030-270A-1
5	1704	100.0	338	3	US-09-118-959-2
6	1704	100.0	338	3	US-08-984-207-1
7	1704	100.0	338	3	US-09-013-587-1
8	1704	100.0	338	4	US-09-086-118-21
9	1704	100.0	338	4	US-09-431-614-1
10	1704	100.0	338	5	PCT-US96-08819-1
11	718.5	42.2	403	2	US-08-200-724A-2
12	718.5	42.2	403	2	US-09-030-270A-3
13	718.5	42.2	403	3	US-08-851-376A-2
14	718.5	42.2	403	3	US-08-984-207-3
15	718.5	42.2	403	3	US-09-013-587-3
16	718.5	42.2	403	4	US-09-086-118-23
17	718.5	42.2	403	4	US-09-431-614-3
18	620.5	36.4	385	5	PCT-US93-06243-2
19	617.5	36.2	385	1	US-08-891-254-3
20	617.5	36.2	385	2	US-08-819-539-3
21	617.5	36.2	385	5	PCT-US96-08819-3
22	147.5	8.7	479	3	US-09-177-349-3
23	147.5	8.7	479	3	US-09-918-951-3
24	139.5	8.2	508	4	US-09-270-767-46233
25	139.5	8.2	2504	4	US-09-328-352-5821
26	138.5	8.1	341	1	US-08-062-024B-5
27	138.5	8.1	341	1	US-08-891-254-5

28	138.5	8.1	341	2	US-08-756-407-5	Sequence 5, Appli
29	138.5	8.1	341	2	US-08-819-539-5	Sequence 5, Appli
30	138.5	8.1	341	2	US-09-030-270A-5	Sequence 5, Appli
31	138.5	8.1	341	3	US-08-984-207-5	Sequence 5, Appli
32	138.5	8.1	341	3	US-09-013-587-5	Sequence 5, Appli
33	138.5	8.1	341	4	US-09-086-118-25	Sequence 25, Appli
34	138.5	8.1	341	4	US-09-431-614-11	Sequence 11, Appli
35	138.5	8.1	341	5	PCT-US94-05014-5	Sequence 5, Appli
36	138.5	8.1	341	5	PCT-US96-08819-5	Sequence 5, Appli
37	134.5	7.9	1415	4	US-09-252-991A-26438	Sequence 26438, A
38	133.5	7.8	674	1	US-08-317-522A-3	Sequence 3, Appli
39	133.5	7.8	674	1	US-08-439-818A-3	Sequence 3, Appli
40	133.5	7.8	674	2	US-08-751-965-3	Sequence 3, Appli
41	133.5	7.8	674	2	US-08-738-975-3	Sequence 3, Appli
42	133.5	7.8	674	2	US-08-728-626-3	Sequence 3, Appli
43	133.5	7.8	674	3	US-08-808-599A-3	Sequence 3, Appli
44	133	7.8	975	4	US-09-328-352-5764	Sequence 4764, Ap
45	131	7.7	749	1	US-08-317-522A-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-891-254-1
Sequence 1, Application US/08891254
Patent No. 576889
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance In Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/891,254
FILING DATE: 10-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/475, 775
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-891-254-1
Query Match 100.0%; Score 1704; DB 1; Length 338;
Best Local Similarity 100.0%; Pred. No. 4.6e-147;
Matches 338; Conservative 0; Mismatches 0; Gaps 0;
OY 1 MOTTIRAHIGDGLVSGSLGAGKGLNLSAASISGVSVKSLSTIDKLTSLATSMWFGAL 60

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Db      1 MOTTIKAHIGDGLVSGIGAGLKGKLNLSAASLSGSSVDKLSSTIDKLTSLTSMFPGAL 60
Qy      61 AAGIGASSKGLGMSNQIGSGFNGAGAGASNLSPKSGGDALEKMFPAKALDDLGHDTVT 120
Db      61 AAGIGASSKGLGMSNQIGSGFNGAGAGASNLSPKSGGDALEKMFPAKALDDLGHDTVT 120
Qy      121 KLTNQSQNLNSMLNASQMTQGNMNAFGSGVNNALSSILNGIGQSGMSGFSQPSLGAGL 180
Db      121 KLTNQSQNLNSMLNASQMTQGNMNAFGSGVNNALSSILNGIGQSGMSGFSQPSLGAGL 180
Qy      181 QGSLGAGAFNQLGNAIGMGVGNALALSNSVSTHYDGNRRHFVDKEDRGMAKEICQFMD 240
Db      181 QGSLGAGAFNQLGNAIGMGVGNALALSNSVSTHYDGNRRHFVDKEDRGMAKEICQFMD 240
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Db      241 QYPEIFGKPEYQKDGMSPTDDKSMKALSKPDDCGMTASMDKFRQAMGMIKSAVAGD 300
Qy      301 TGNNTNLRGAGASLGIDAAVVGDKTIANMSLGKLANA 338
Db      301 TGNNTNLRGAGASLGIDAAVVGDKTIANMSLGKLANA 338

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RESULT 2

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US-08-484-358-2
; Sequence 2, Application US/08484358
; Patent No. 5850015
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Colimer, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor
; TITLE OF INVENTION: From
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,358
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-484-358-2

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Query Match      100.0%; Score 1704; DB 2; Length 338;
Best Local Similarity 100.0%; Pred. No. 4,6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      1 MOTTIKAHIGDGLVSGIGAGLKGKLNLSAASLSGSSVDKLSSTIDKLTSLTSMFPGAL 60
Qy      61 AAGIGASSKGLGMSNQIGSGFNGAGAGASNLSPKSGGDALEKMFPAKALDDLGHDTVT 120
Db      61 AAGIGASSKGLGMSNQIGSGFNGAGAGASNLSPKSGGDALEKMFPAKALDDLGHDTVT 120
Qy      121 KLTNQSQNLNSMLNASQMTQGNMNAFGSGVNNALSSILNGIGQSGMSGFSQPSLGAGL 180
Db      121 KLTNQSQNLNSMLNASQMTQGNMNAFGSGVNNALSSILNGIGQSGMSGFSQPSLGAGL 180
Qy      181 QGSLGAGAFNQLGNAIGMGVGNALALSNSVSTHYDGNRRHFVDKEDRGMAKEICQFMD 240
Db      181 QGSLGAGAFNQLGNAIGMGVGNALALSNSVSTHYDGNRRHFVDKEDRGMAKEICQFMD 240
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Qy      301 TGNNTNLRGAGASLGIDAAVVGDKTIANMSLGKLANA 338
Db      301 TGNNTNLRGAGASLGIDAAVVGDKTIANMSLGKLANA 338

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RESULT 3

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US-08-819-539-1
; Sequence 1, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-1

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Query Match      100.0%; Score 1704; DB 2; Length 338;
Best Local Similarity 100.0%; Pred. No. 4,6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy      1 MOTTIKAHIGDGLVSGIGAGLKGKLNLSAASLSGSSVDKLSSTIDKLTSLTSMFPGAL 60

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Db      1 MOTTIKAHIGDGLVSGAGAGLKGINSASSLSSVDKLSSTIDKLTSLTSMFGAL 60
Qy      61 AAGLASSKGLGMSNOQGSFGNGAOGASNLISVPKSGDALSKMFDALDLDLGHDTVT 120
Db      61 AAGLASSKGLGMSNOQGSFGNGAOGASNLISVPKSGDALSKMFDALDLDLGHDTVT 120
Qy      121 KLTNOSQNLANSMTNAGSOMTQGNNAFSGGVNNALSSILGNGLQGSMSGFSPSLGAGL 180
Db      121 KLTNOSQNLANSMTNAGSOMTQGNNAFSGGVNNALSSILGNGLQGSMSGFSPSLGAGL 180
Qy      181 QGLSGAGFNOIGNAIGVGONALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
Db      181 QGLSGAGFNOIGNAIGVGONALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
Qy      241 QYPEIFGKPEYQXQGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Db      241 QYPEIFGKPEYQXQGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Qy      301 TGNTNLNRGAGASLGIDAAVGDKTANMSLGKLANA 338
Db      301 TGNTNLNRGAGASLGIDAAVGDKTANMSLGKLANA 338

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RESULT 4

US-09-030-270A-1

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; Sequence 1, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-030-270A-1

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Query Match 100.0%; Score 1704; DB 2; Length 338;
 Best Local Similarity 100.0%; Pred. No. 4.6e-147;
 Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1 MOTTIKAHIGDGLVSGAGAGLKGINSASSLSSVDKLSSTIDKLTSLTSMFGAL 60
Qy      61 AAGLASSKGLGMSNOQGSFGNGAOGASNLISVPKSGDALSKMFDALDLDLGHDTVT 120
Db      61 AAGLASSKGLGMSNOQGSFGNGAOGASNLISVPKSGDALSKMFDALDLDLGHDTVT 120
Qy      121 KLTNOSQNLANSMTNAGSOMTQGNNAFSGGVNNALSSILGNGLQGSMSGFSPSLGAGL 180
Db      121 KLTNOSQNLANSMTNAGSOMTQGNNAFSGGVNNALSSILGNGLQGSMSGFSPSLGAGL 180
Qy      181 QGLSGAGFNOIGNAIGVGONALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
Db      181 QGLSGAGFNOIGNAIGVGONALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
Qy      241 QYPEIFGKPEYQXQGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Db      241 QYPEIFGKPEYQXQGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Qy      301 TGNTNLNRGAGASLGIDAAVGDKTANMSLGKLANA 338
Db      301 TGNTNLNRGAGASLGIDAAVGDKTANMSLGKLANA 338

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RESULT 5

US-09-118-959-2

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; Sequence 2, Application US/09118959
; Patent No. 6001959
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collier, Alan
; TITLE OF INVENTION: Hyperensitive Response Elicitor From
; TITLE OF INVENTION: Erwinia Chrysanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/118,959
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-118-959-2

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Query Match 100.0%; Score 1704; DB 3; Length 338;
 Best Local Similarity 100.0%; Pred. No. 4.6e-147;
 Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 MQITIKAHIGDGLGVSGIGAQGLKGLNSAASLSGSSVYDKLSSTIDKLSALTSMFEGAL 60
Qy 61 AAGIGASSKGLGMSNOIGQSFNGAQAASNLISVPSKGGDALSKMPKALDDLGHDTVT 120
Db 61 AAGIGASSKGLGMSNOIGQSFNGAQAASNLISVPSKGGDALSKMPKALDDLGHDTVT 120
Qy 121 KLTNQSQNLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGSGFSQPSLGAAGL 180
Db 121 KLTNQSQNLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGSGFSQPSLGAAGL 180
Qy 181 QGSGAGAFNOLGNAIGVGQNALSLSNVSTHVDGNRRHFVDEKEDRGMAKEIQGFM 240
Db 181 QGSGAGAFNOLGNAIGVGQNALSLSNVSTHVDGNRRHFVDEKEDRGMAKEIQGFM 240
Qy 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Db 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Qy 301 TGNTNLNRGAGASLGIDAAVGDKIANNSLGKLANA 338
Db 301 TGNTNLNRGAGASLGIDAAVGDKIANNSLGKLANA 338

RESULT 6

US-08-984-207-1
; Sequence 1, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/984,207
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,230
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-984-207-1

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Best Local Similarity 100.0%; Pred. No. 4.6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Qy 301 TGNTNLNRGAGASLGIDAAVGDKIANNSLGKLANA 338
Db 301 TGNTNLNRGAGASLGIDAAVGDKIANNSLGKLANA 338

RESULT 7

US-09-013-587-1
; Sequence 1, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/036,048
; FILING DATE: 27-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1501
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-013-587-1

Query Match 100.0%; Score 1704; DB 3; Length 338;
Best Local Similarity 100.0%; Pred. No. 4.6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MOTTIKAHIGDGLGVSGIAGAGLKGKLNASASLSGSSVYKLSSTTIDKLTSLTSMFFGAL 60
QY 61 AAGLGASSKGIAGMSNOLQGSFGNGAOGASNLISVPSKSGDALSKPFKALDLDLGHDTVT 120
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QY 181 QGLSGAGAFNOLGNAIGMGVQGNALSLSNVSTHVDGNRHFVYDKEDRGMAKEIGQFMD 240
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RESULT 8

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US-09-086-118-21
; Sequence 21, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-21

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Query Match 100.0%; Score 1704; DB 4; Length 338;
Best Local Similarity 100.0%; Pred. No. 4.6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 61 AAGLGASSKGIAGMSNOLQGSFGNGAOGASNLISVPSKSGDALSKPFKALDLDLGHDTVT 120
Db 61 AAGLGASSKGIAGMSNOLQGSFGNGAOGASNLISVPSKSGDALSKPFKALDLDLGHDTVT 120
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Db 181 QGLSGAGAFNOLGNAIGMGVQGNALSLSNVSTHVDGNRHFVYDKEDRGMAKEIGQFMD 240
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSMAKALSKPDDDGWTGASMDKFRQAMGMIKSAVAGD 300
Db 241 QYPEIFGKPEYQKDGWSSPKTDDKSMAKALSKPDDDGWTGASMDKFRQAMGMIKSAVAGD 300
QY 301 TGNNTNLNRGAGASLGIDAAVVGDKIANMSLGKLANA 338
Db 301 TGNNTNLNRGAGASLGIDAAVVGDKIANMSLGKLANA 338

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RESULT 9

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US-09-431-614-1
; Sequence 1, Application US/09431614
; Patent No. 6624139
; GENERAL INFORMATION:
; APPLICANT: Schading, Richard L.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/41 (ERC-003)
; CURRENT APPLICATION NUMBER: US/09/431,614
; EARLIER FILING DATE: 1999-11-02
; EARLIER APPLICATION NUMBER: 60/107,243
; EARLIER FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-431-614-1

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Query Match 100.0%; Score 1704; DB 4; Length 338;
Best Local Similarity 100.0%; Pred. No. 4.6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MOTTIKAHIGDGLGVSGIAGAGLKGKLNASASLSGSSVYKLSSTTIDKLTSLTSMFFGAL 60
Db 1 MOTTIKAHIGDGLGVSGIAGAGLKGKLNASASLSGSSVYKLSSTTIDKLTSLTSMFFGAL 60
QY 61 AAGLGASSKGIAGMSNOLQGSFGNGAOGASNLISVPSKSGDALSKPFKALDLDLGHDTVT 120
Db 61 AAGLGASSKGIAGMSNOLQGSFGNGAOGASNLISVPSKSGDALSKPFKALDLDLGHDTVT 120
QY 121 KLTNOSNOLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGMSGFSQPSLGAGL 180
Db 121 KLTNOSNOLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGMSGFSQPSLGAGL 180
QY 181 QGLSGAGAFNOLGNAIGMGVQGNALSLSNVSTHVDGNRHFVYDKEDRGMAKEIGQFMD 240
Db 181 QGLSGAGAFNOLGNAIGMGVQGNALSLSNVSTHVDGNRHFVYDKEDRGMAKEIGQFMD 240
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSMAKALSKPDDDGWTGASMDKFRQAMGMIKSAVAGD 300

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Db 240 LGGAGLQNLGSPVYQQLGNVGTGIGMKAGIQALNDIGTHRHSTSFVAKGDRAMAKE 299
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Db 300 IGGFMDYPEYFGKPEYQKDGWSSPKTDDKSWAKALSPPDDGWTGASMDKFRQAMGMIK 359
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RESULT 12
US-09-030-270A-3

Sequence 3, Application US/09030270A
Patent No. 5977060
GENERAL INFORMATION:
APPLICANT: Zitter, Thomas A.
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: INSECT CONTROL WITH A
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devane & Doyle LLP
STREET: P.O. Box 1051, Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/030,270A
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/039,226
FILING DATE: 28-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1521
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-030-270A-3

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Qy 56 -----FCGALAQGLGAS--SKGLGMSNQLGSGFN-----GAQASNLLSVPK- 96
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Qy 175 LGAAGLQGLSAGAFNQLGNAIGMGVQNALSLNSVSTHVDGNRHFVYDKEDRGMAKE 234
Db 240 LGGAGLQNLGSPVYQQLGNVGTGIGMKAGIQALNDIGTHRHSTSFVAKGDRAMAKE 299
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RESULT 13
US-08-851-376A-2

Sequence 2, Application US/08851376A
Patent No. 6174717
GENERAL INFORMATION:
APPLICANT: Beer, Steven V.
APPLICANT: Wei, Zhong-Min
APPLICANT: Bauer, David W.
APPLICANT: Collier, Alan
APPLICANT: He, Sheng-Yang
APPLICANT: Laby, Ron
TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
TITLE OF INVENTION: IN PLANTS
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon Peabody LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: NY
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,376A
FILING DATE: 05-MAY-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/200,724
FILING DATE: 23-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10035
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 403 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-851-376A-2

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Best Local Similarity 42.8%; Pred. No. 3.4e-57;
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

Qy 1 MQITIKAHIGDDLVSGLGAQ--GLKGLNSAASLSGVSTIDKLTSLTSMN--- 55
Db 13 MQISI--GGAGGNNLLGTSRQNALGG--NSA--LGLGGGNQNDTVVQLAGLLTGMNMM 67

Topology: linear
Molecule type: protein
US-09-013-587-3

Query Match 42.2%; Score 718.5; DB 3; Length 403;
Best Local Similarity 42.8%; Pred. No. 3.4e-57;
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

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1761.643 Million cell updates/sec

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1396920

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*

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- 2: /cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1704	100.0	338	9	US-09-879-248-1
5	1704	100.0	338	9	US-09-770-693-1
6	1704	100.0	338	9	US-09-766-348-1
7	1704	100.0	338	14	US-10-034-158-1
8	1704	100.0	338	14	US-10-010-390-1
9	1704	100.0	338	14	US-10-387-806-21
10	1704	100.0	338	15	US-10-441-736-1
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12	718.5	42.2	403	9	US-09-835-684-3
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16	718.5	42.2	403	9	US-09-766-348-3	Sequence 3, Appli
17	718.5	42.2	403	14	US-10-034-158-3	Sequence 3, Appli
18	718.5	42.2	403	14	US-10-010-390-3	Sequence 23, Appli
19	718.5	42.2	403	14	US-10-387-806-23	Sequence 3, Appli
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21	154.5	9.1	979	15	US-10-282-122A-47372	Sequence 4, Appli
22	151.5	8.9	827	15	US-10-282-122A-47312	Sequence 4, Appli
23	151.5	8.9	652	15	US-10-282-122A-49839	Sequence 4, Appli
24	150.5	8.8	1819	15	US-10-282-122A-51538	Sequence 4, Appli
25	147.5	8.7	479	9	US-09-918-951-3	Sequence 3, Appli
26	147.5	8.7	585	9	US-09-738-626-6032	Sequence 6032, Ap
27	147	8.6	511	15	US-10-282-122A-48866	Sequence 49866, A
28	146	8.6	518	15	US-10-282-122A-50634	Sequence 50634, A
29	145	8.5	1106	15	US-10-282-122A-62472	Sequence 62472, A
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35	142	8.3	3300	15	US-10-282-122A-64369	Sequence 64369, A
36	140.5	8.2	1331	15	US-10-282-122A-47930	Sequence 47930, A
37	140.5	8.2	1862	15	US-10-282-122A-49757	Sequence 49757, A
38	140	8.2	1943	15	US-10-282-122A-58750	Sequence 58750, A
39	140	8.2	1974	9	US-09-885-913A-12	Sequence 12, Appli
40	138.5	8.1	341	9	US-09-086-118-25	Sequence 25, Appli
41	138.5	8.1	341	9	US-09-835-684-7	Sequence 7, Appli
42	138.5	8.1	341	9	US-09-880-371-7	Sequence 7, Appli
43	138.5	8.1	341	9	US-09-879-248-11	Sequence 11, Appli
44	138.5	8.1	341	9	US-09-770-693-5	Sequence 5, Appli
45	138.5	8.1	341	14	US-10-034-158-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-09-086-118-21
Sequence 21, Application US/09086118
Patent No. US20010011380A1
GENERAL INFORMATION:
APPLICANT: Labey, Ronald J.
APPLICANT: Beer, Steven V.
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/086,118
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/048,109
FILING DATE: 30-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1301
TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-086-118-21

Query Match 100.0%; Score 1704; DB 9; Length 338;
Best Local Similarity 100.0%; Pred. No. 1.5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOTTIKAHIGDGLVSGTGAQGLKGLNSAASSLSSVDKLSSTIDKLTSAITSMFPGAL 60
DB 1 MOTTIKAHIGDGLVSGTGAQGLKGLNSAASSLSSVDKLSSTIDKLTSAITSMFPGAL 60
QY 61 AAGLGASSKGLGMSNQLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120
DB 61 AAGLGASSKGLGMSNQLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120
QY 121 KLTNQSOLANSMLNASQMTGNNNAFGSGVNNALSSILNGLQGSMSGFSQPSLGAAGL 180
DB 121 KLTNQSOLANSMLNASQMTGNNNAFGSGVNNALSSILNGLQGSMSGFSQPSLGAAGL 180
QY 181 QGLSGAGAFNOLGNAIGMGVQNAALSAISNVSTHVDGNRRHFPDKEDRGMAKEIQGFM 240
DB 181 QGLSGAGAFNOLGNAIGMGVQNAALSAISNVSTHVDGNRRHFPDKEDRGMAKEIQGFM 240
QY 241 QYPEIFGKPEYQKDGMSPTTDDKSWAKALSKPDDDMGTGASMDKFRQAMGMIKSAVAGD 300
DB 241 QYPEIFGKPEYQKDGMSPTTDDKSWAKALSKPDDDMGTGASMDKFRQAMGMIKSAVAGD 300
QY 301 TGNNTNLNRGAGASLIGIDAADVGDKIANNMGLKLANA 338
DB 301 TGNNTNLNRGAGASLIGIDAADVGDKIANNMGLKLANA 338

RESULT 2

US-09-835-684-1
Sequence 1, Application US/09835684
Patent No. US20020019337A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Qiu, Dewen
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
FILE REFERENCE: 21829/71
CURRENT APPLICATION NUMBER: US/09/835,684
CURRENT FILING DATE: 2001-04-16
PRIOR APPLICATION NUMBER: 60/198,359
PRIOR FILING DATE: 2000-04-19
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 338
TYPE: PRT
ORGANISM: Erwinia chrysanthemi
US-09-835-684-1

Query Match 100.0%; Score 1704; DB 9; Length 338;
Best Local Similarity 100.0%; Pred. No. 1.5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOTTIKAHIGDGLVSGTGAQGLKGLNSAASSLSSVDKLSSTIDKLTSAITSMFPGAL 60
DB 1 MOTTIKAHIGDGLVSGTGAQGLKGLNSAASSLSSVDKLSSTIDKLTSAITSMFPGAL 60
QY 61 AAGLGASSKGLGMSNQLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120

DB 61 AAGLGASSKGLGMSNQLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120
QY 121 KLTNQSOLANSMLNASQMTGNNNAFGSGVNNALSSILNGLQGSMSGFSQPSLGAAGL 180
DB 121 KLTNQSOLANSMLNASQMTGNNNAFGSGVNNALSSILNGLQGSMSGFSQPSLGAAGL 180
QY 181 QGLSGAGAFNOLGNAIGMGVQNAALSAISNVSTHVDGNRRHFPDKEDRGMAKEIQGFM 240
DB 181 QGLSGAGAFNOLGNAIGMGVQNAALSAISNVSTHVDGNRRHFPDKEDRGMAKEIQGFM 240
QY 241 QYPEIFGKPEYQKDGMSPTTDDKSWAKALSKPDDDMGTGASMDKFRQAMGMIKSAVAGD 300
DB 241 QYPEIFGKPEYQKDGMSPTTDDKSWAKALSKPDDDMGTGASMDKFRQAMGMIKSAVAGD 300
QY 301 TGNNTNLNRGAGASLIGIDAADVGDKIANNMGLKLANA 338
DB 301 TGNNTNLNRGAGASLIGIDAADVGDKIANNMGLKLANA 338

RESULT 3

US-09-880-371-1
Sequence 1, Application US/09880371
Patent No. US20020059658A1
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Derocher, Jay
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
TITLE OF INVENTION: PLANTS
FILE REFERENCE: 21829/91
CURRENT APPLICATION NUMBER: US/09/880,371
CURRENT FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: 60/211,585
PRIOR FILING DATE: 2000-06-15
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 338
TYPE: PRT
ORGANISM: Erwinia chrysanthemi
US-09-880-371-1

Query Match 100.0%; Score 1704; DB 9; Length 338;
Best Local Similarity 100.0%; Pred. No. 1.5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOTTIKAHIGDGLVSGTGAQGLKGLNSAASSLSSVDKLSSTIDKLTSAITSMFPGAL 60
DB 1 MOTTIKAHIGDGLVSGTGAQGLKGLNSAASSLSSVDKLSSTIDKLTSAITSMFPGAL 60
QY 61 AAGLGASSKGLGMSNQLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120
DB 61 AAGLGASSKGLGMSNQLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120
QY 121 KLTNQSOLANSMLNASQMTGNNNAFGSGVNNALSSILNGLQGSMSGFSQPSLGAAGL 180
DB 121 KLTNQSOLANSMLNASQMTGNNNAFGSGVNNALSSILNGLQGSMSGFSQPSLGAAGL 180
QY 181 QGLSGAGAFNOLGNAIGMGVQNAALSAISNVSTHVDGNRRHFPDKEDRGMAKEIQGFM 240
DB 181 QGLSGAGAFNOLGNAIGMGVQNAALSAISNVSTHVDGNRRHFPDKEDRGMAKEIQGFM 240
QY 241 QYPEIFGKPEYQKDGMSPTTDDKSWAKALSKPDDDMGTGASMDKFRQAMGMIKSAVAGD 300
DB 241 QYPEIFGKPEYQKDGMSPTTDDKSWAKALSKPDDDMGTGASMDKFRQAMGMIKSAVAGD 300
QY 301 TGNNTNLNRGAGASLIGIDAADVGDKIANNMGLKLANA 338
DB 301 TGNNTNLNRGAGASLIGIDAADVGDKIANNMGLKLANA 338

RESULT 4

US-09-879-248-1

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; Sequence 1, Application US/098792248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879, 248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-879-248-1

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Query Match      100.0%; Score 1704; DB 9; Length 338;
Best Local Similarity 100.0%; Pred. No. 1.5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MOTTIKAHIGDGLGVSGIGAGLKGKLNLSAASSLSSVDKLSSTIDKLTSLTSMFPGAL 60
DB 1 MOTTIKAHIGDGLGVSGIGAGLKGKLNLSAASSLSSVDKLSSTIDKLTSLTSMFPGAL 60
QY 61 AOGIGASSKGLGMSNOQGSFGNGAOGASNLSPVKSGGDALSKMFKALDDLGHDTVT 120
DB 61 AOGIGASSKGLGMSNOQGSFGNGAOGASNLSPVKSGGDALSKMFKALDDLGHDTVT 120
QY 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
DB 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
QY 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
DB 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
QY 181 QGSLGAGAFNOLGNAIGVGONALALSNSVSTHVDGNRRHFPVKEDRGMAKEIGQFMD 240
DB 181 QGSLGAGAFNOLGNAIGVGONALALSNSVSTHVDGNRRHFPVKEDRGMAKEIGQFMD 240
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
DB 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
QY 301 TGNNTNMLRGAGASLGIDAAVVDKTIANNISLGLANA 338
DB 301 TGNNTNMLRGAGASLGIDAAVVDKTIANNISLGLANA 338

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RESULT 5
US-09-770-693-1
; Sequence 1, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770, 693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-770-693-1

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Query Match      100.0%; Score 1704; DB 9; Length 338;

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Best Local Similarity 100.0%; Pred. No. 1.5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MOTTIKAHIGDGLGVSGIGAGLKGKLNLSAASSLSSVDKLSSTIDKLTSLTSMFPGAL 60
DB 1 MOTTIKAHIGDGLGVSGIGAGLKGKLNLSAASSLSSVDKLSSTIDKLTSLTSMFPGAL 60
QY 61 AOGIGASSKGLGMSNOQGSFGNGAOGASNLSPVKSGGDALSKMFKALDDLGHDTVT 120
DB 61 AOGIGASSKGLGMSNOQGSFGNGAOGASNLSPVKSGGDALSKMFKALDDLGHDTVT 120
QY 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
DB 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
QY 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
DB 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
QY 181 QGSLGAGAFNOLGNAIGVGONALALSNSVSTHVDGNRRHFPVKEDRGMAKEIGQFMD 240
DB 181 QGSLGAGAFNOLGNAIGVGONALALSNSVSTHVDGNRRHFPVKEDRGMAKEIGQFMD 240
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
DB 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
QY 301 TGNNTNMLRGAGASLGIDAAVVDKTIANNISLGLANA 338
DB 301 TGNNTNMLRGAGASLGIDAAVVDKTIANNISLGLANA 338

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RESULT 6
US-09-766-348-1
; Sequence 1, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dwen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-766-348-1

```

```

Query Match      100.0%; Score 1704; DB 9; Length 338;
Best Local Similarity 100.0%; Pred. No. 1.5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MOTTIKAHIGDGLGVSGIGAGLKGKLNLSAASSLSSVDKLSSTIDKLTSLTSMFPGAL 60
DB 1 MOTTIKAHIGDGLGVSGIGAGLKGKLNLSAASSLSSVDKLSSTIDKLTSLTSMFPGAL 60
QY 61 AOGIGASSKGLGMSNOQGSFGNGAOGASNLSPVKSGGDALSKMFKALDDLGHDTVT 120
DB 61 AOGIGASSKGLGMSNOQGSFGNGAOGASNLSPVKSGGDALSKMFKALDDLGHDTVT 120
QY 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
DB 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
QY 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
DB 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSSILNGLCQSMGSGFSPSLGAGL 180
QY 181 QGSLGAGAFNOLGNAIGVGONALALSNSVSTHVDGNRRHFPVKEDRGMAKEIGQFMD 240
DB 181 QGSLGAGAFNOLGNAIGVGONALALSNSVSTHVDGNRRHFPVKEDRGMAKEIGQFMD 240

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```

Qy 241 QYEIFEFGKPEYQKDGWSSPKTDDKSMKALSKPDDDDGTGASMDKFRQAMGMIKSAVAGD 300
    |||||||
Db 241 QYEIFEFGKPEYQKDGWSSPKTDDKSMKALSKPDDDDGTGASMDKFRQAMGMIKSAVAGD 300
Qy 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338
    |||||||
Db 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338

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RESULT 7

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US-10-034-158-1
; Sequence 1, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-10-034-158-1

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Query Match 100.0%; Score 1704; DB 14; Length 338;
Best Local Similarity 100.0%; Pred. No. 1.5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MOTTIKAHIGDGLVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60
    |||||||
Db 1 MOTTIKAHIGDGLVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60
Qy 61 AOGIGASSKGLGMSNOLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120
    |||||||
Db 61 AOGIGASSKGLGMSNOLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120
Qy 121 KLTNOSNQLANSMNLASQMTQGNMNAFSGSVNNALSLILNGLGQSGMSGFSQPSLGAAGL 180
    |||||||
Db 121 KLTNOSNQLANSMNLASQMTQGNMNAFSGSVNNALSLILNGLGQSGMSGFSQPSLGAAGL 180
Qy 181 QGLSGAGAFNOLGNAIGWVGQNALSLSNVSTHVDGNRRHFYDKEDRGMAKEIGQFMD 240
    |||||||
Db 181 QGLSGAGAFNOLGNAIGWVGQNALSLSNVSTHVDGNRRHFYDKEDRGMAKEIGQFMD 240
Qy 241 QYEIFEFGKPEYQKDGWSSPKTDDKSMKALSKPDDDDGTGASMDKFRQAMGMIKSAVAGD 300
    |||||||
Db 241 QYEIFEFGKPEYQKDGWSSPKTDDKSMKALSKPDDDDGTGASMDKFRQAMGMIKSAVAGD 300
Qy 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338
    |||||||
Db 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338

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RESULT 8

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US-10-010-390-1
; Sequence 1, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111

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; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-10-010-390-1

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Query Match 100.0%; Score 1704; DB 14; Length 338;
Best Local Similarity 100.0%; Pred. No. 1.5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MOTTIKAHIGDGLVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60
    |||||||
Db 1 MOTTIKAHIGDGLVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60
Qy 61 AOGIGASSKGLGMSNOLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120
    |||||||
Db 61 AOGIGASSKGLGMSNOLGQSFNGAOGASNLISVPKSGDALSKMFDKALDDLGHDTVT 120
Qy 121 KLTNOSNQLANSMNLASQMTQGNMNAFSGSVNNALSLILNGLGQSGMSGFSQPSLGAAGL 180
    |||||||
Db 121 KLTNOSNQLANSMNLASQMTQGNMNAFSGSVNNALSLILNGLGQSGMSGFSQPSLGAAGL 180
Qy 181 QGLSGAGAFNOLGNAIGWVGQNALSLSNVSTHVDGNRRHFYDKEDRGMAKEIGQFMD 240
    |||||||
Db 181 QGLSGAGAFNOLGNAIGWVGQNALSLSNVSTHVDGNRRHFYDKEDRGMAKEIGQFMD 240
Qy 241 QYEIFEFGKPEYQKDGWSSPKTDDKSMKALSKPDDDDGTGASMDKFRQAMGMIKSAVAGD 300
    |||||||
Db 241 QYEIFEFGKPEYQKDGWSSPKTDDKSMKALSKPDDDDGTGASMDKFRQAMGMIKSAVAGD 300
Qy 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338
    |||||||
Db 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338

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RESULT 9

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US-10-387-806-21
; Sequence 21, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Leby, Ron J.
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-10-387-806-21

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```

Query Match 100.0%; Score 1704; DB 14; Length 338;
Best Local Similarity 100.0%; Pred. No. 1.5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MOTTIKAHIGDGLVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60
    |||||||
Db 1 MOTTIKAHIGDGLVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60

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QY 61 AAGGAGSSKGLGMSNOLGQSFNGAQAASNLISVPSGSDALSKMFKALDDLGHDTVT 120
DB 61 AAGGAGSSKGLGMSNOLGQSFNGAQAASNLISVPSGSDALSKMFKALDDLGHDTVT 120
QY 121 KLTTQSNQNLANSMLNASOMTQGNNAFSGSVNNALSLILGNGLGQSMGFSQPSILGAGGL 180
DB 121 KLTTQSNQNLANSMLNASOMTQGNNAFSGSVNNALSLILGNGLGQSMGFSQPSILGAGGL 180
QY 181 QGSLGAGAFNOLGNAIGVGQNALSLSNVSTHVDGNNHFPYDKEDRGMAKEIGQFMD 240
DB 181 QGSLGAGAFNOLGNAIGVGQNALSLSNVSTHVDGNNHFPYDKEDRGMAKEIGQFMD 240
QY 241 QYPEIFPKPEYQKQGWSSPKTDDKSWAKALSKPDDDGMTGASMKFQAMGIMKSAVAGD 300
DB 241 QYPEIFPKPEYQKQGWSSPKTDDKSWAKALSKPDDDGMTGASMKFQAMGIMKSAVAGD 300
QY 301 TGNNTNLNRGAGASLIGDAVVGDKTANMSLGLKLANA 338
DB 301 TGNNTNLNRGAGASLIGDAVVGDKTANMSLGLKLANA 338

RESULT 10
US-10-441-736-1
; Sequence 1, Application US/10441736
; Publication No. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/203 (EBC-003)
; CURRENT APPLICATION NUMBER: US/10/441, 736
; CURRENT FILING DATE: 2003-05-20
; PRIOR APPLICATION NUMBER: 60/107,243
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: 09/431,614
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRN
; ORGANISM: Erwinia chrysanthemi
US-10-441-736-1

Query Match 100.0%; Score 1704; DB 15; Length 338;
Best Local Similarity 100.0%; Pred. No. 1,5e-134;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 11
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Lady, Ronald J.
; APPLICANT: Beet, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match 42.2%; Score 718.5; DB 9; Length 403;
Best Local Similarity 42.8%; Pred. No. 8e-52;
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;
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QY 235 IGFMDYPEIFGKPEYKDGMSPTKDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMIK 294
 Db 300 IGFMDYPEYFVGKPEYKDGMSPTKDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMIK 359
 QY 295 SAVAGDTGNTNLNRGAGASLIGIDAADVGDKIAMSIGKLANA 338
 Db 360 RPAWAGDTGNTNLNRGAGASLIGIDAADVGDKIAMSIGKLANA 403

RESULT 12
 US-09-835-684-3
 ; Sequence 3, Application US/09835684
 ; Patent No. US20020019337A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wei, Zhong-Min
 ; APPLICANT: Olu, Dwen
 ; APPLICANT: Remick, Dean
 ; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
 ; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
 ; FILE REFERENCE: 21829/71
 ; CURRENT APPLICATION NUMBER: US/09/835,684
 ; CURRENT FILING DATE: 2001-04-16
 ; PRIOR APPLICATION NUMBER: 60/198,359
 ; PRIOR FILING DATE: 2000-04-19
 ; NUMBER OF SEQ ID NOS: 12
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 403
 ; TYPE: PRT
 ; ORGANISM: Erwinia amylovora
 ; US-09-835-684-3

Query Match 42.2%; Score 718.5; DB 9; Length 403;
 Best Local Similarity 42.8%; Pred. No. 8e-52;
 Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

QY 1 MQITIKAHIGDGLVSGIGAQ--GLKGLNSAASSLVDSITDKLTSALTSM--- 55
 Db 13 MQISI--GGAGNNGLLGTSTRQNNAGLGG--NSA---LGLGGGNQNDTVNQLAGLLTGMWMM 67
 QY 56 -----FGALAAQGLGAS--SKGLGMSNOLGSGFEN-----GAQASNLSTVPK- 96
 Db 68 SMMGGGLMGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNS 127
 QY 97 -----SGGDALS-----KMPDKALDDLGLHDYTKLTNQSNO 128
 Db 128 PLDDALGINTSQNDSTSGTSTSDSDSPMOQLIKPSEIMOSLFG-----DQDQ 179
 QY 129 LANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSM-----SGFSQPS 174
 Db 180 TQSSSGGKQPTBEGQNAKKGVTDALSLGMLNGLSQLLNGGLGGGQGNAGTGLDSS 239
 QY 175 LGAGGLGGLGAGAFNOLGNALIGWGVQNALSLASVSTHVDDNNRHFDKEDRGMAKE 234
 Db 240 LGGGGLNLSGPVYQOLGNAVGTGIGMKAGIQALNDIGTHRSSTSPVKKGRAMAKE 299
 QY 235 IGFMDYPEIFGKPEYKDGMSPTKDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMIK 294
 Db 300 IGFMDYPEYFVGKPEYKDGMSPTKDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMIK 359
 QY 295 SAVAGDTGNTNLNRGAGASLIGIDAADVGDKIAMSIGKLANA 338
 Db 360 RPAWAGDTGNTNLNRGAGASLIGIDAADVGDKIAMSIGKLANA 403

RESULT 13
 US-09-880-371-3
 ; Sequence 3, Application US/09880371
 ; Patent No. US20020059658A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wei, Zhong-Min
 ; APPLICANT: Derocher, Jay

; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
 ; TITLE OF INVENTION: PLANTS
 ; FILE REFERENCE: 21829/91
 ; CURRENT APPLICATION NUMBER: US/09/880,371
 ; CURRENT FILING DATE: 2001-06-13
 ; PRIOR APPLICATION NUMBER: 60/211,585
 ; PRIOR FILING DATE: 2000-06-15
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 403
 ; TYPE: PRT
 ; ORGANISM: Erwinia amylovora
 ; US-09-880-371-3

Query Match 42.2%; Score 718.5; DB 9; Length 403;
 Best Local Similarity 42.8%; Pred. No. 8e-52;
 Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

QY 1 MQITIKAHIGDGLVSGIGAQ--GLKGLNSAASSLVDSITDKLTSALTSM--- 55
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 QY 56 -----FGALAAQGLGAS--SKGLGMSNOLGSGFEN-----GAQASNLSTVPK- 96
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 QY 97 -----SGGDALS-----KMPDKALDDLGLHDYTKLTNQSNO 128
 Db 128 PLDDALGINTSQNDSTSGTSTSDSDSPMOQLIKPSEIMOSLFG-----DQDQ 179
 QY 129 LANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSM-----SGFSQPS 174
 Db 180 TQSSSGGKQPTBEGQNAKKGVTDALSLGMLNGLSQLLNGGLGGGQGNAGTGLDSS 239
 QY 175 LGAGGLGGLGAGAFNOLGNALIGWGVQNALSLASVSTHVDDNNRHFDKEDRGMAKE 234
 Db 240 LGGGGLNLSGPVYQOLGNAVGTGIGMKAGIQALNDIGTHRSSTSPVKKGRAMAKE 299
 QY 235 IGFMDYPEIFGKPEYKDGMSPTKDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMIK 294
 Db 300 IGFMDYPEYFVGKPEYKDGMSPTKDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMIK 359
 QY 295 SAVAGDTGNTNLNRGAGASLIGIDAADVGDKIAMSIGKLANA 338
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RESULT 14
 US-09-879-248-3
 ; Sequence 3, Application US/09879248
 ; Patent No. US20020062500A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Fan, Hao
 ; APPLICANT: Wei, Zhong-Min
 ; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
 ; FILE REFERENCE: 21829/81
 ; CURRENT APPLICATION NUMBER: US/09/879,248
 ; CURRENT FILING DATE: 2001-06-12
 ; PRIOR APPLICATION NUMBER: 60/212,211
 ; PRIOR FILING DATE: 2000-06-16
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 403
 ; TYPE: PRT
 ; ORGANISM: Erwinia amylovora
 ; US-09-879-248-3

Query Match 42.2%; Score 718.5; DB 9; Length 403;
 Best Local Similarity 42.8%; Pred. No. 8e-52;
 Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

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QY      1 MOTTIKAHIGDGLGVSGIAQ--GLKGLNSAASSLGSSVDTKSTIDKLTSLTSM--- 55
      13 MQISI--GGAGGNGLLGTSRQNAIGLQ--NSA---LGLGGNGNDTVNQLAGLITGMNMM 67
QY      56 -----FCGALAQGLGAS--SKGLGNSNOLGOSFGN-----GAQGSNLSVPK- 96
      68 SMNGGGGLMGGLGGLGGLGGLGSSGGLGEBLSNMLNDMLGGLSLMTLSSKGNNTTSTTNS 127
QY      97 -----SGGDALS-----KMFDKALDDLGHDTVTKLTNOSNQ 128
      128 PLDQALGINSTQNDSTSGTSTSDSDPWOQLLKMFSEIMQSLFG-----DQDQG 179
QY      129 LANSMLNASQMTQGNMNAFGSGVNNALSSILGNGLGOSM-----SGFSOPS 174
      180 TCGSSSGGKQPTBEGQNAKKYKGVTDALSGLMNGLSQLLGNGLGGGGGAGNAGTGLDSS 239
QY      175 LGAGGLQGLSGAGAFNOLGNAIGMGVGNALSLSNVSTHVDGNRHFVDKEDRGMAKE 234
      240 LGGKGLONLSGPVYDQOLGNAVGTGIGMKAGIQALNDIGTHRSSTRSFVAKGDRAMAKE 299
QY      235 IGFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGIX 294
      300 IGFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGWTGASMDKFRQAMGIX 359
QY      295 SAVAGDTGNTNMLRGAGASLGIDA VVGPDKIANMGLKLANA 338
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RESULT 15

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US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US2002006943A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: COMBETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erythrina amylovoira
US-09-770-693-3

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Query Match 42.2%; Score 718.5; DB 9; Length 403;

Best Local Similarity 42.8%; Pred. No. 8e-52;

Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

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QY      56 -----FCGALAQGLGAS--SKGLGNSNOLGOSFGN-----GAQGSNLSVPK- 96
      68 SMNGGGGLMGGLGGLGGLGGLGSSGGLGEBLSNMLNDMLGGLSLMTLSSKGNNTTSTTNS 127
QY      97 -----SGGDALS-----KMFDKALDDLGHDTVTKLTNOSNQ 128
      128 PLDQALGINSTQNDSTSGTSTSDSDPWOQLLKMFSEIMQSLFG-----DQDQG 179
QY      129 LANSMLNASQMTQGNMNAFGSGVNNALSSILGNGLGOSM-----SGFSOPS 174
      180 TCGSSSGGKQPTBEGQNAKKYKGVTDALSGLMNGLSQLLGNGLGGGGGAGNAGTGLDSS 239

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QY      175 LGAGGLQGLSGAGAFNOLGNAIGMGVGNALSLSNVSTHVDGNRHFVDKEDRGMAKE 234
      240 LGGKGLONLSGPVYDQOLGNAVGTGIGMKAGIQALNDIGTHRSSTRSFVAKGDRAMAKE 299
QY      235 IGFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGIX 294
      300 IGFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGWTGASMDKFRQAMGIX 359
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      360 RPAAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMLGKLGAA 403

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Search completed: March 11, 2005, 13:14:14
Job time : 65.2861 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 11, 2005, 12:36:12 ; Search time 21.9523 Seconds

(without alignments)
1169.775 Million cell updates/sec

Title: US-09-597-840-7

Perfect score: 1756
Sequence: 1 MSYGNIQSPENLPGLOLNTL.....QQMLAONGSGSQSTQPM 344Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/ptodata/1/iaa/5B.COMB.pep:*
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6: /cgn2_6/ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1756	100.0	344	1 US-08-891-254-7	Sequence 7, Appl
2	1756	100.0	344	2 US-08-819-539-7	Sequence 7, Appl
3	1756	100.0	344	2 US-09-030-270A-7	Sequence 7, Appl
4	1756	100.0	344	3 US-08-984-207-7	Sequence 7, Appl
5	1756	100.0	344	3 US-09-013-587-7	Sequence 7, Appl
6	1756	100.0	344	3 US-09-086-118-27	Sequence 7, Appl
7	1756	100.0	344	4 US-09-431-614-15	Sequence 15, Appl
8	1756	100.0	344	5 PCT-US96-08819-7	Sequence 7, Appl
9	279.5	15.9	235	2 US-08-529-1908-1	Sequence 1, Appl
10	279.5	15.9	641	4 US-09-249-585A-3	Sequence 3, Appl
11	279.5	15.9	641	4 US-09-410-399-4	Sequence 4, Appl
12	263.5	15.0	201	3 US-09-052-995-1	Sequence 1, Appl
13	263.5	15.0	201	3 US-09-053-003-40	Sequence 40, Appl
14	263.5	15.0	201	4 US-09-054-281-22	Sequence 22, Appl
15	263.5	15.0	201	4 US-09-478-948-6	Sequence 6, Appl
16	263.5	15.0	201	4 US-09-818-094-40	Sequence 40, Appl
17	263.5	15.0	201	4 US-09-754-947-5	Sequence 5, Appl
18	254.5	14.5	200	4 US-09-989-981A-13	Sequence 13, Appl
19	247.5	14.0	870	2 US-09-010-928B-2	Sequence 2, Appl
20	246	14.0	738	3 US-08-864-038A-3	Sequence 3, Appl
21	241.5	13.8	745	2 US-09-010-928B-28	Sequence 28, Appl
22	241.5	13.8	907	2 US-09-060-756-728	Sequence 728, App
23	236.5	13.5	334	3 US-09-060-756-728	Sequence 728, App
24	236.5	13.5	334	4 US-09-670-314-728	Sequence 727, App
25	226.5	12.9	318	3 US-09-060-756-727	Sequence 727, App
26	226.5	12.9	318	4 US-09-670-314-727	Sequence 8, Appl
27	224	12.8	528	4 US-09-490-291-8	

28	223	12.7	606	3 US-08-556-978B-21	Sequence 21, Appl
29	223	12.7	606	3 US-09-247-806-4	Sequence 4, Appl
30	222	12.6	747	3 US-09-034-177-3	Sequence 3, Appl
31	219	12.5	718	1 US-08-425-069-2	Sequence 2, Appl
32	219	12.5	718	2 US-08-317-844B-2	Sequence 2, Appl
33	218	12.4	651	3 US-08-556-978B-19	Sequence 19, Appl
34	218	12.4	651	3 US-09-247-806-1	Sequence 1, Appl
35	218	12.4	651	4 US-09-863-859-1	Sequence 1, Appl
36	217.5	12.4	508	4 US-09-270-767-46233	Sequence 46233, A
37	217	12.4	482	4 US-09-902-540-14708	Sequence 14708, A
38	215	12.2	100	4 US-09-411-067C-4	Sequence 4, Appl
39	215	12.2	604	3 US-08-556-978B-63	Sequence 63, Appl
40	213.5	12.2	606	3 US-09-247-806-6	Sequence 6, Appl
41	212.5	12.1	316	4 US-09-538-092-997	Sequence 997, App
42	211	12.0	606	3 US-08-556-978B-23	Sequence 23, Appl
43	211	12.0	606	3 US-09-247-806-8	Sequence 8, Appl
44	211	12.0	809	4 US-09-863-859-13	Sequence 13, Appl
45	211	12.0	818	4 US-09-863-859-22	Sequence 22, Appl

ALIGNMENTS

RESULT 1
US-08-891-254-7
Sequence 7, Application US/08891254
Patent No. 5776889
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Beer, Steven V.
TITLE OF INVENTION: Hypersensitive Response
TITLE OF INVENTION: Induced Resistance In Plants
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:
ADDRESSER: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/891,254
FILING DATE: 10-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/475,775
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 14603/10050
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-891-254-7
Query Match 100.0%; Score 1756; DB 1; Length 344;
Best Local Similarity 100.0%; Pred. No. 1,3e-131;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MSVGNISPSNLPGLQNLNTNTNSQQSGSVODLIKQVEKDILNTIILAVQKAQASAG 60
Db 1 MSVGNISPSNLPGLQNLNTNTNSQQSGSVODLIKQVEKDILNTIILAVQKAQASAG 60
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QY 121 DLVYLLKALAHMQPPGNDKNGVGVANGAKAGGCGLALEIQLIILAQGGGAGA 180
Db 121 DLVYLLKALAHMQPPGNDKNGVGVANGAKAGGCGLALEIQLIILAQGGGAGA 180
QY 181 GGAGGGVGVAGAGDGGSGAGAGANGADGNGVNGVANGPQVAGDVNGANGADDSSED 240
Db 181 GGAGGGVGVAGAGDGGSGAGAGANGADGNGVNGVANGPQVAGDVNGANGADDSSED 240
QY 241 QGGITGVLOKLMKILNLVQMMQGGGLGGGNQAGGSKGAGNAPASGANPGANQPGSAD 300
Db 241 QGGITGVLOKLMKILNLVQMMQGGGLGGGNQAGGSKGAGNAPASGANPGANQPGSAD 300
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Db 301 DQSSGNNLOSQIMDVYKEVVQILQMLAAQNGSGQSTSTQPM 344

RESULT 4

US-08-984-207-7
Sequence 7, Application US/08984207
Patent No. 6235974
GENERAL INFORMATION:
APPLICANT: Qiu, Dewen
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: P.O. Box 1051, Clinton Square
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/984,207
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,230
FILING DATE: 05-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1201
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-984-207-7

Query Match 100.0%; Score 1756; DB 3; Length 344;

Best Local Similarity 100.0%; Pred. No. 1,3e-131;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 121 DLVYLLKALAHMQPPGNDKNGVGVANGAKAGGCGLALEIQLIILAQGGGAGA 180
QY 181 GGAGGGVGVAGAGDGGSGAGAGANGADGNGVNGVANGPQVAGDVNGANGADDSSED 240
Db 181 GGAGGGVGVAGAGDGGSGAGAGANGADGNGVNGVANGPQVAGDVNGANGADDSSED 240
QY 241 QGGITGVLOKLMKILNLVQMMQGGGLGGGNQAGGSKGAGNAPASGANPGANQPGSAD 300
Db 241 QGGITGVLOKLMKILNLVQMMQGGGLGGGNQAGGSKGAGNAPASGANPGANQPGSAD 300
QY 301 DQSSGNNLOSQIMDVYKEVVQILQMLAAQNGSGQSTSTQPM 344
Db 301 DQSSGNNLOSQIMDVYKEVVQILQMLAAQNGSGQSTSTQPM 344

RESULT 5

US-09-013-587-7
Sequence 7, Application US/09013587
Patent No. 627814
GENERAL INFORMATION:
APPLICANT: Qiu, Dewen
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/013,587
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/036,048
FILING DATE: 27-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1501
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-013-587-7

Query Match 100.0%; Score 1756; DB 3; Length 344;
Best Local Similarity 100.0%; Pred. No.1.3e-131;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSVGNISPSNLPGLQNLNTNTNSQSGSQSVODLIKQVEKDIILNITIALVQKAQASAG 60
1 MSVGNISPSNLPGLQNLNTNTNSQSGSQSVODLIKQVEKDIILNITIALVQKAQASAG 60
DB 1 MSVGNISPSNLPGLQNLNTNTNSQSGSQSVODLIKQVEKDIILNITIALVQKAQASAG 60
QY 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQDPMQALMQLLE 120
61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQDPMQALMQLLE 120
DB 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQDPMQALMQLLE 120
QY 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGQGLBALQEIQLLAQLGGGAGA 180
121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGQGLBALQEIQLLAQLGGGAGA 180
DB 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGQGLBALQEIQLLAQLGGGAGA 180
QY 181 GGAGGAGVAGAGADGGSGAGAGANGADGNGVNGVQANGPQNAQDVNGANGADDSSED 240
181 GGAGGAGVAGAGADGGSGAGAGANGADGNGVNGVQANGPQNAQDVNGANGADDSSED 240
DB 181 GGAGGAGVAGAGADGGSGAGAGANGADGNGVNGVQANGPQNAQDVNGANGADDSSED 240
QY 241 QGGITGVLTQKLMKILNALVQMQQGLGGGNGAQGGSKGAGNAPASGANPGANQPGSAD 300
241 QGGITGVLTQKLMKILNALVQMQQGLGGGNGAQGGSKGAGNAPASGANPGANQPGSAD 300
DB 241 QGGITGVLTQKLMKILNALVQMQQGLGGGNGAQGGSKGAGNAPASGANPGANQPGSAD 300
QY 301 DQSSGQNNLOSQIMDVYKEVYQILQOMLAQNGSQSTSTQPM 344
301 DQSSGQNNLOSQIMDVYKEVYQILQOMLAQNGSQSTSTQPM 344
DB 301 DQSSGQNNLOSQIMDVYKEVYQILQOMLAQNGSQSTSTQPM 344

RESULT 6

US-09-086-118-27
Sequence 27, Application US/09086118
Patent No. 6583107

GENERAL INFORMATION:

APPLICANT: Laby, Ronald J.
APPLICANT: Beer, Steven V.
APPLICANT: Wei, Zhong-Min
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES THEREOF
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/086,118
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/048,109
FILING DATE: 30-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/1301
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear

MOLECULE TYPE: protein
US-09-086-118-27

Query Match 100.0%; Score 1756; DB 4; Length 344;
Best Local Similarity 100.0%; Pred. No.1.3e-131;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSVGNISPSNLPGLQNLNTNTNSQSGSQSVODLIKQVEKDIILNITIALVQKAQASAG 60
1 MSVGNISPSNLPGLQNLNTNTNSQSGSQSVODLIKQVEKDIILNITIALVQKAQASAG 60
DB 1 MSVGNISPSNLPGLQNLNTNTNSQSGSQSVODLIKQVEKDIILNITIALVQKAQASAG 60
QY 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQDPMQALMQLLE 120
61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQDPMQALMQLLE 120
DB 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQDPMQALMQLLE 120
QY 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGQGLBALQEIQLLAQLGGGAGA 180
121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGQGLBALQEIQLLAQLGGGAGA 180
DB 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGQGLBALQEIQLLAQLGGGAGA 180
QY 181 GGAGGAGVAGAGADGGSGAGAGANGADGNGVNGVQANGPQNAQDVNGANGADDSSED 240
181 GGAGGAGVAGAGADGGSGAGAGANGADGNGVNGVQANGPQNAQDVNGANGADDSSED 240
DB 181 GGAGGAGVAGAGADGGSGAGAGANGADGNGVNGVQANGPQNAQDVNGANGADDSSED 240
QY 241 QGGITGVLTQKLMKILNALVQMQQGLGGGNGAQGGSKGAGNAPASGANPGANQPGSAD 300
241 QGGITGVLTQKLMKILNALVQMQQGLGGGNGAQGGSKGAGNAPASGANPGANQPGSAD 300
DB 241 QGGITGVLTQKLMKILNALVQMQQGLGGGNGAQGGSKGAGNAPASGANPGANQPGSAD 300
QY 301 DQSSGQNNLOSQIMDVYKEVYQILQOMLAQNGSQSTSTQPM 344
301 DQSSGQNNLOSQIMDVYKEVYQILQOMLAQNGSQSTSTQPM 344
DB 301 DQSSGQNNLOSQIMDVYKEVYQILQOMLAQNGSQSTSTQPM 344

RESULT 7

US-09-431-614-15
Sequence 15, Application US/09431614
Patent No. 6624139

GENERAL INFORMATION:

APPLICANT: Wei, Zhong-Min
APPLICANT: Schading, Richard L.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
TITLE OF INVENTION: RESISTANCE
TITLE OF INVENTION: 21829/41 (EBC-003)
CURRENT APPLICATION NUMBER: US/09/431,614
CURRENT FILING DATE: 1999-11-02
EARLIER APPLICATION NUMBER: 60/107,243
EARLIER FILING DATE: 1998-11-05
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 15
LENGTH: 344
TYPE: PRT
ORGANISM: Pseudomonas solanacearum
US-09-431-614-15

Query Match 100.0%; Score 1756; DB 4; Length 344;
Best Local Similarity 100.0%; Pred. No.1.3e-131;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 MSVGNISPSNLPGLQNLNTNTNSQSGSQSVODLIKQVEKDIILNITIALVQKAQASAG 60
DB 1 MSVGNISPSNLPGLQNLNTNTNSQSGSQSVODLIKQVEKDIILNITIALVQKAQASAG 60
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61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQDPMQALMQLLE 120
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121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGQGLBALQEIQLLAQLGGGAGA 180
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QY 181 GGAGGAGVAGAGADGGSGAGAGANGADGNGVNGVQANGPQNAQDVNGANGADDSSED 240
181 GGAGGAGVAGAGADGGSGAGAGANGADGNGVNGVQANGPQNAQDVNGANGADDSSED 240
DB 181 GGAGGAGVAGAGADGGSGAGAGANGADGNGVNGVQANGPQNAQDVNGANGADDSSED 240

QY 241 QGGTGTGLOKLMKTLNLTALVQMMQGGGNOAGSGSKAGNAPASGANPGANQPGSAD 300
DB 241 QGGTGTGLOKLMKTLNLTALVQMMQGGGNOAGSGSKAGNAPASGANPGANQPGSAD 300
QY 301 DOSSGNNLQSQIMDVYKEVVQILQOMLAAQNGSGQSTSTQPM 344
DB 301 DOSSGNNLQSQIMDVYKEVVQILQOMLAAQNGSGQSTSTQPM 344

RESULT 8

PCT-US96-08819-7

Sequence 7, Application PC/TUS9608819

GENERAL INFORMATION:
APPLICANT: Cornell Research Foundation, Inc.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
TITLE OF INVENTION: RESISTANCE IN PLANTS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/08819
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475, 775
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Goldman, Michael L.
REGISTRATION NUMBER: 30,727
REFERENCE/DOCKET NUMBER: 19603/10051
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-08819-7

Query Match 100.0%; Score 1756; DB 5; Length 344;
Best Local Similarity 100.0%; Pred. No. 1,3e-131;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSVGNIGSPSNLPGLQNLNLTNTNSQQSGSVQDLIKYVEKDIILNTIALVQRAQASAG 60
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DB 61 GNGGNGNAPAKGNNANAGANDPSKNDPSKQAPQASAKTGNVDANNQDPMLQMLE 120
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DB 121 DLVTLKALALHMOQPGGNDKNGVGVGANGAKGAGGGGLAALQEIQLAQLGGGAGA 180
QY 181 GAGAGGVGAGAGAGDGSAGAGAGANGADGNGVNGVQANGPONAQVNGANGADDSSED 240
DB 181 GAGAGGVGAGAGAGDGSAGAGAGANGADGNGVNGVQANGPONAQVNGANGADDSSED 240

QY 241 QGGTGTGLOKLMKTLNLTALVQMMQGGGNOAGSGSKAGNAPASGANPGANQPGSAD 300
DB 241 QGGTGTGLOKLMKTLNLTALVQMMQGGGNOAGSGSKAGNAPASGANPGANQPGSAD 300
QY 301 DOSSGNNLQSQIMDVYKEVVQILQOMLAAQNGSGQSTSTQPM 344
DB 301 DOSSGNNLQSQIMDVYKEVVQILQOMLAAQNGSGQSTSTQPM 344

RESULT 9

US-08-529-190B-1

Sequence 1, Application US/08529190B

PATENT NO. 5833991
GENERAL INFORMATION:
APPLICANT: Masucci, Maria G.
TITLE OF INVENTION: GLYCINE-CONTAINING SEQUENCES
TITLE OF INVENTION: CONFERRING INVISIBILITY TO THE IMMUNE SYSTEM
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/529,190B
FILING DATE: 15-SEP-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE9501324-9
FILING DATE: 10-APR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US08/522,595
FILING DATE: 01-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen A
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3255/53015
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-345-9100
TELEFAX: 617-345-9111
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 235 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-529-190B-1

Query Match 15.9%; Score 279.5; DB 2; Length 235;
Best Local Similarity 32.8%; Pred. No. 9.5e-15;
Matches 84; Conservative 5; Mismatches 94; Indels 73; Gaps 7;

QY 59 AGNTGNTGNAAPAKDGNANAGANDPSKNDPSKQAPQASAKTGNVDANNQDPMLQMLE 118
DB 16 AGGAGAGGAGAGAGAGAGAGAGG-----GAGAGGAGAGAGAG----- 54
QY 119 LEDLVTLKALALHMOQPGGNDKNGVGVGANGAKGAGGGGLAALQEIQLAQLGGGAGA 178
DB 55 -----AGGAGAGGAGAGAGAGAGAGAGAG-----AGGAGA 86
QY 179 GAG-----GAGGCVGAG--GADGSGAGAGAGANGADGNGVNGVQANGPONAQVNVN- 229
DB 87 GAGGA 146
QY 230 GAGAGDGSSEDQGGTGTGLOKLMKTLNLTALVQMMQGGGNOAGSGSKAGNAPASGA 289

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 11, 2005, 12:45:48 ; Search time 64.4095 Seconds

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Title: US-09-597-840-7

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Searched: 1396920 seqs, 329844858 residues

Total number of hits satisfying chosen parameters: 1396920

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

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- 2: /cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB.pep.*
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- 9: /cgn2_6/ptodata/1/pubppaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubppaa/US09B_PUBCOMB.pep.*
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- 18: /cgn2_6/ptodata/1/pubppaa/US11_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1756	100.0	344	9	US-09-835-684-11
3	1756	100.0	344	9	US-09-880-371-11
4	1756	100.0	344	9	US-09-879-248-15
5	1756	100.0	344	9	US-09-770-693-7
6	1756	100.0	344	9	US-09-766-348-7
7	1756	100.0	344	14	US-10-034-158-7
8	1756	100.0	344	14	US-10-010-390-11
9	1756	100.0	344	14	US-10-387-806-27
10	1756	100.0	344	15	US-10-441-736-15
11	302	17.2	615	15	US-10-282-122A-64786
12	284	16.2	606	15	US-10-282-122A-64464
13	279.5	15.9	641	14	US-10-138-098-52

14	279.5	15.9	641	14	US-10-294-804-4	Sequence 4, Appl
15	279.5	15.9	641	15	US-10-325-838B-22	Sequence 22, Appl
16	279.5	15.9	641	16	US-10-732-694-11	Sequence 11, Appl
17	279.5	15.9	641	17	US-10-476-615-52	Sequence 52, Appl
18	279.5	15.9	1079	10	US-09-820-843A-20	Sequence 20, Appl
19	279	15.9	562	15	US-10-282-122A-64514	Sequence 64514, A
20	278.5	15.9	1381	15	US-10-282-122A-64895	Sequence 64895, A
21	278	15.8	1306	15	US-10-282-122A-64405	Sequence 64405, A
22	276.5	15.7	484	10	US-09-820-843A-19	Sequence 19, Appl
23	276.5	15.7	484	15	US-10-282-122A-64867	Sequence 64867, A
24	273.5	15.6	588	15	US-10-282-122A-64869	Sequence 64869, A
25	268.5	15.3	357	9	US-09-864-761-35807	Sequence 35807, A
26	268.5	15.3	778	15	US-10-282-122A-64751	Sequence 64751, A
27	267	15.2	694	15	US-10-282-122A-64726	Sequence 64726, A
28	266	15.1	283	9	US-09-864-761-36720	Sequence 36720, A
29	263.5	15.0	201	9	US-09-818-094-40	Sequence 40, Appl
30	263.5	15.0	201	9	US-09-848-990-22	Sequence 22, Appl
31	263.5	15.0	201	9	US-09-760-364-14	Sequence 14, Appl
32	263.5	15.0	201	11	US-09-754-947-5	Sequence 5, Appl
33	263.5	15.0	201	15	US-10-339-744-5	Sequence 5, Appl
34	260.5	14.8	532	15	US-10-282-122A-64658	Sequence 64658, A
35	260	14.8	256	10	US-09-820-843A-18	Sequence 18, Appl
36	259.5	14.8	923	15	US-10-282-122A-64474	Sequence 64474, A
37	259.5	14.8	923	15	US-10-282-122A-64361	Sequence 64361, A
38	259	14.7	584	15	US-10-282-122A-64903	Sequence 64903, A
39	257	14.6	491	15	US-10-282-122A-64558	Sequence 64558, A
40	255	14.5	591	15	US-10-282-122A-64363	Sequence 64363, A
41	254.5	14.5	200	9	US-09-798-584-18	Sequence 18, Appl
42	254.5	14.5	200	9	US-09-967-624-19	Sequence 19, Appl
43	254.5	14.5	200	9	US-09-967-667-18	Sequence 18, Appl
44	254.5	14.5	200	10	US-09-921-159-34	Sequence 34, Appl
45	254.5	14.5	200	10	US-09-990-940-21	Sequence 21, Appl

ALIGNMENTS

RESULT 1
US-09-086-118-27
; Sequence 27, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beert, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENT ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEROOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:

Query Match	100.0%;	Score 1756;	DB 9;	Length 344;
Best Local Similarity	100.0%;	Pred. No. 6.4e-117;		
Matches 344;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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301 DQSSGQNNLQSIQIMDVKEVQILQOMLAAQNGSGQOSTSTQPM 344
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Query Match 100.0%; Score 1756; DB 9; Length 344;

Qy	301	DOSSGNNLQSIQIMDVKEVVOILQMLAANGSSQOSTOPM	344
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; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-766-348-7

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Qy 301 DOSSGQNNLOSQIMDVYKEVVQIILQOMLAQNGSGSQSTSTQPM 344
Db 301 DOSSGQNNLOSQIMDVYKEVVQIILQOMLAQNGSGSQSTSTQPM 344

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RESULT 7

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US-10-034-158-7
; Sequence 7, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-10-034-158-7

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Query Match 100.0%; Score 1756; DB 14; Length 344;
Best Local Similarity 100.0%; Pred. No. 6,4e-117;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKSQAPQSANKTGNVDANNQDPMQALMOLLE 120
Qy 121 DLVLTLLKALHMQPGGNDKNGVGVANGAKAGGQGLAELQEIQLLAQLGGGAGA 180
Db 121 DLVLTLLKALHMQPGGNDKNGVGVANGAKAGGQGLAELQEIQLLAQLGGGAGA 180
Qy 181 GGAGGIVGAGAGGAGGAGGAGGAGNGADGNGVNGQANGPONAGDVNGANGADDGSED 240
Db 181 GGAGGIVGAGAGGAGGAGGAGGAGNGADGNGVNGQANGPONAGDVNGANGADDGSED 240
Qy 241 QGGITGVLOKLMKILNALVQMGGGLGGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
Db 241 QGGITGVLOKLMKILNALVQMGGGLGGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
Qy 301 DOSSGQNNLOSQIMDVYKEVVQIILQOMLAQNGSGSQSTSTQPM 344
Db 301 DOSSGQNNLOSQIMDVYKEVVQIILQOMLAQNGSGSQSTSTQPM 344

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RESULT 8

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US-10-010-390-11
; Sequence 11, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111

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; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Ralstonia solanacearum
US-10-010-390-11

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Query Match 100.0%; Score 1756; DB 14; Length 344;
Best Local Similarity 100.0%; Pred. No. 6,4e-117;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MSVGNISPSNLPGIQLNLTNTNTNSQSGSVODLIKQVEKDLITLITIALVQRAQASAG 60
Db 1 MSVGNISPSNLPGIQLNLTNTNTNSQSGSVODLIKQVEKDLITLITIALVQRAQASAG 60
Qy 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKSQAPQSANKTGNVDANNQDPMQALMOLLE 120
Db 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKSQAPQSANKTGNVDANNQDPMQALMOLLE 120
Qy 121 DLVLTLLKALHMQPGGNDKNGVGVANGAKAGGQGLAELQEIQLLAQLGGGAGA 180
Db 121 DLVLTLLKALHMQPGGNDKNGVGVANGAKAGGQGLAELQEIQLLAQLGGGAGA 180
Qy 181 GGAGGIVGAGAGGAGGAGGAGGAGNGADGNGVNGQANGPONAGDVNGANGADDGSED 240
Db 181 GGAGGIVGAGAGGAGGAGGAGGAGNGADGNGVNGQANGPONAGDVNGANGADDGSED 240
Qy 241 QGGITGVLOKLMKILNALVQMGGGLGGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
Db 241 QGGITGVLOKLMKILNALVQMGGGLGGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
Qy 301 DOSSGQNNLOSQIMDVYKEVVQIILQOMLAQNGSGSQSTSTQPM 344
Db 301 DOSSGQNNLOSQIMDVYKEVVQIILQOMLAQNGSGSQSTSTQPM 344

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RESULT 9

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US-10-387-806-27
; Sequence 27, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-10-387-806-27

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Query Match 100.0%; Score 1756; DB 14; Length 344;
Best Local Similarity 100.0%; Pred. No. 6,4e-117;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MSVGNISPSNLPGIQLNLTNTNTNSQSGSVODLIKQVEKDLITLITIALVQRAQASAG 60
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QY 61 GNTGNTGAPAKDGNANAGANDPSKNDPSKSOAPPSANKTGVNDANNODPMQALMOLLE 120
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QY 181 GGAAGGVGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 181 GGAAGGVGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
QY 241 QGGGLTGVLOKLMKTLNVLVOMMOQGGLGGGNOAGGSGAGAGNAPASGANPGANOPGSAD 300
DB 241 QGGGLTGVLOKLMKTLNVLVOMMOQGGLGGGNOAGGSGAGAGNAPASGANPGANOPGSAD 300
QY 301 DOSSGONNLQSOIMDVVKEVVOIILQOMLAONGSGSQSTSTQPM 344
DB 301 DOSSGONNLQSOIMDVVKEVVOIILQOMLAONGSGSQSTSTQPM 344

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RESULT 10
US-10-441-736-15
; Sequence 15, Application US/10441736
; Publication No. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/203 (EBC-003)
; CURRENT APPLICATION NUMBER: US/10/441,736
; CURRENT FILING DATE: 2003-05-20
; PRIOR FILING DATE: 1998-11-05
; PRIOR FILING DATE: 1998-11-05
; PRIOR FILING DATE: 1998-11-05
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 15
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-10-441-736-15

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Query Match 100.0%; Score 1756; DB 15; Length 344;
Best Local Similarity 100.0%; Pred. No. 6,4e-117;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 MSVGNIGSPSNLPGLOINLNTNTNSQSGSVODLHKVEKDIINTIITLALVOKAAGSAG 60
QY 61 GNTGNTGAPAKDGNANAGANDPSKNDPSKSOAPPSANKTGVNDANNODPMQALMOLLE 120
DB 61 GNTGNTGAPAKDGNANAGANDPSKNDPSKSOAPPSANKTGVNDANNODPMQALMOLLE 120
QY 121 DLVYLKLAALHMOOPGNDKNGVGVANGAGAGGQGLAEALOEIEQILLOLGGGGAGA 180
DB 121 DLVYLKLAALHMOOPGNDKNGVGVANGAGAGGQGLAEALOEIEQILLOLGGGGAGA 180
QY 181 GGAAGGVGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 181 GGAAGGVGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
QY 241 QGGGLTGVLOKLMKTLNVLVOMMOQGGLGGGNOAGGSGAGAGNAPASGANPGANOPGSAD 300
DB 241 QGGGLTGVLOKLMKTLNVLVOMMOQGGLGGGNOAGGSGAGAGNAPASGANPGANOPGSAD 300
QY 301 DOSSGONNLQSOIMDVVKEVVOIILQOMLAONGSGSQSTSTQPM 344
DB 301 DOSSGONNLQSOIMDVVKEVVOIILQOMLAONGSGSQSTSTQPM 344

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RESULT 11
US-10-282-122A-64786
; Sequence 64786, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zygink, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent In version 3.1
; SEQ ID NO 64786
; LENGTH: 615
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-64786
Query Match 17.2%; Score 302; DB 15; Length 615;
Best Local Similarity 33.0%; Pred. No. 2,2e-13;
Matches 97; Conservative 15; Mismatches 104; Indels 78; Gaps 10;
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QY 110 DPMQALMOLLEDLVYLKLAALHMOOPGNDKNGVGVANGAGAGGQGLAEALOEIEQILLOLGGGGAGA 169
DB 110 DPMQALMOLLEDLVYLKLAALHMOOPGNDKNGVGVANGAGAGGQGLAEALOEIEQILLOLGGGGAGA 169
QY 398 G-----GLANGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 444
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DB 209 DGGNGVNG-----NGANGPONAAGDVANGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 259
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DB 505 GGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 551
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DB 260 QMGGGGGAG-----GNQAGSGSKAGNAPASGANPGANOPGSADDOSSGON 307

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QY	119	LEDVLKLIKAL	HMQQPGGNDK	GVGANGAK	GAGGGGGL	AEALQETI	LLAQAGGGA	178
Db	144	-----	-ACGGAGAGGGA	GAGAGCGGAGAGGAG	-----	-ACGGA		175
QY	179	GAG-----	-GAGGGV	GAG--GAGCGS	AGAGAGAN	GDGNGV	NGNANPQNA	GDV--229
Db	176	GAGGAGAGAGG	GAGGAGAGAGG	AGAGGAGAGG	AGAGGAGAGG	AGAGGAGAGG	AGAGGAGAGG	235

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